FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

[The MINING JOURNAL is Registered at the General Post Office as a Nonspaper and for Transmission Abroad.]

No. 2464.—Vol. LII.

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LONDON, SATURDAY, NOVEMBER 11, 1882.

SUPPLEMENT. SPRICE SIXPENCE BY POST, £1 4s PER ANNUM.

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Every Friday a general and reliable List issued (a copy of which will be forwarded on application), containing closing prices of the week.

prices of the week.

Mines Inspected.

Bankers: City Bank, London—South Cornwall Bank, St. Austell. BANKERS: CITY BANK, LONDON—SOUTH CORNWALL

BPECIAL DEALINGS in the following, or part:—

100 Almada, 14s. 50 Indian Consoil., 10s 9

50 Bedford United, £2½; 50 Indian Consoil., 10s 9

100 Carnaryon Cop., 7s. 9

30 Callao Bis, 8s. 9

30 Consolidated, 6s. 9

100 Devala Cen., 10s. 3d. 10

100 Devala Gen., 10s. 3d. 10

100 Devala Cen., 10s. 3d. 10

100 Devala Cen., 10s. 3d. 10

100 Devala Gen., 10s. 3d. 10

100 Devala Gen., 10s. 3d. 10

100 Devala Gen., 10s. 3d. 10

100 Devala Moyar, 17s. 10

100 Devala Gen., 10s. 3d. 10

100 Devala Moyar, 17s. 10

100 Devala Gen., 10s. 3d. 10

100 Devala Moyar, 17s. 10s. 3d. 10

100 Devala Moyar, 17s. 10s. 3d. 10 40 Panulcillo, £616s.
200 Prince of Wales, 12s 6
80 Pestarena, 4s. 9d
20 Ruby, £21s. 3d.
50 Rhodes Reef, 12s.
20 Richmond, £86s. 3d.
15 Roman Grav., £2139
25 Sierra Buttes, 32s. 6d.
10 S. Condurrow, £10.
50 Suth Darren, £1.
50 S. E. Wynaad, 28s. 9d
50 So. Devon Uni., 16s. 3
100 Sortridge, 7s.
100 Simons Reef, fully paid, 2s. 25 Bratsberg, £2.
19 Carnarvon Oop., 7s. 9
30 Callao Bis, 8s.
25 Ohile Gold, 19s. 9d.
30 Callao Bis, 8s.
25 Ohile Gold, 19s. 9d.
30 Colombian Hyd., 7s. 3
30 Consolidated, 6s.
70 California, 21s. 6d.
10 Devala Cen., 10s. 3d.
10 Devala Moyar, 17s.
25 D'Eresby Mount. 13s 6
30 Devon Gonsols.
30 Devon Onsols.
30 Devon Onsols.
30 Devon Onsols.
30 Devon Onsols.
30 Devon Friend., 8s.
30 Devon Gonsols.
30 Devon Friend., 8s.
30 East But Hills, 19s. 5
50 East Moverton, 15s.
20 Est Covell.
20 E. Roman Grav., 8s.
35 New Caradon, 12s.
35 New C. Caradon, 12s.
35 New C. Caradon, 12s.
35 Gold Coast, 22s. 6d.
36 Organos, 23.
37 New C. Caradon, 12s.
38 New C. Caradon, 12s.
39 New C. Caradon, 12s.
30 New C. Caradon, 12s.
31 New C. Caradon, 12s.
32 No. Penstruthal, 9s. 6
33 New C. Caradon, 12s.
34 No. Penstruthal, 9s. 6
35 New C. Caradon, 12s.
35 New C. Caradon, 12s.
36 No. Penstruthal, 9s. 6
36 No. Devon Dini., 16s. 3
37 New C. Caradon, 12s.
38 New C. Caradon, 12s.
39 No. Penstruthal, 9s. 6
30 No. Devon Transcruthal, 9s. 6
30 No. Devon Transcruthal,

RAILWAYS - FOREIGN BONDS - SPECIAL BUSINESS.
Fortnighly Accounts opened on receipt of the usual cover.
JAMES H. CROFTS, 1, FINCH LANE, LONDON.

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Devala Moyar. Indian Kingston. Bouth-East Wynaad,
Devala Central, Indian Trevelyan,
Indian Consolidated. Mysore. Wynaad Perseverance.

Devala Moyar.

Devala Moyar.

Indian Kingston.

Indian Consolidated.
Indian Trevelyan,
Indian Glenrock.

At CLOSE MARKET PRICES, tree of commission.

**Reliable information given on any of the above. A daily price list issued giving closing quotations.

SPECIAL BUSINESS in California, La Plata, Rio Tinto, Frontino and Bolivia, Potosi, Chile, Nouveau Monde, Ruby, Richmond. "." SHARES IN THE ABOVE INDIAN OR OTHER GOLD AND SILVER MINES SOLD FOR FORWARD DELIVERY ONE, TWO, OR THREE MONTHS ON DEPOSIT OF TWENTY PER CENT.

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RLECTRIC LIGHT SHARES — SPECIAL BUSINESS.

Jablochkoff. Anglo-American Brush. Pilsen-Joel. Anglo-American Brush. Pilsen-Joel, Midland Brush. Hammond.
Metropolitan Brush. ount, or for forward delivery (one, two, or three

Shares sold for cash, account, or for forward delivery (one, t months) on deposit of 20 per cent.

JAMES H. OROFTS, 1, FINCH LANE, LONDON. MR. W. H. BUMPUS, STOCK AND SHARE BROKER,

AND MINING SHARE DEALER
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RAILWAYS, BANKS, FOREIGN and COLONIAL BON'DS,

TRAMWAYS, TELEGRAPHS, and all the LEADING INVESTMENTS.

Accounts opened for the Fortnightly Settlement

A List of Investments free on application.

ALS to Investments free on application.

ALS

Where prices are not inserted, offers may be made. SPECIAL BUSINESS, at close prices, in the SHARES of all the principal HOME and FOREIGN MINES.

IMPORTANT TO INVESTORS.—The satisfactory position and prospects of the metal markets (particularly TIN and COPPER) are causing investors and other to turn their attention to shares in SOUND DIVIDEND and PROGRE 181VE MINES, many of which may now be bought at very low prices, and are likely to improve considerably in value within the next few months.

The present is a very favourable opportunity or securing CHEAP SHARES.

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Shareholders in any of the above-named companies, desirous of DISPOSING of their SHARES may obtain the full market prices on application to— MESSES, PETER WATSON AND CO.,

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DEALER in BRITISH and FOREIGN STOCKS and SHARES
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(FROM 76, OLD BROAD STREET)
ESTABLISHED 1853. E. COOKE,

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number of shares) to immediate applicants at prices annexed, free of commission:

Where prices are not inserted, the market price of the day will be taken, or offers may be made:

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51 Callao Bis Gold, 6s.

60 Colombian Hydraulic Gold, 6s.

60 Colombian Hydraulic Gold, 6s.

50 Deven Friend., 8s.

51 Don Pedro Gold, 4s.

52 Deast Rose Lead, 23s.

53 Don Pedro Gold, 4s.

53 Den Bedro Gold, 4s.

54 Callao Nowwest Caradon Copper.

55 New Caradon Copper.

56 New Caradon Copper.

57 See Blue Hills Tin, 9s.

68 Desat Caradon Copper,

50 North Blue Hills, 3s.

51 Frontino Gold, £2%.

52 Orita Gold, 2ts., fully

53 Gogiana Lead, £2%.

54 Orita Gold, 2ts., fully

55 Gogiana Lead, £2%.

56 Gold Coast, 5s. paid,

7s. 6d.

60 Gold Coast, 5s. paid,

7s. 6d.

61 Herodsfoot, 3s. 6d.

62 Many of the above shares can be sold for settlement by arrangement at the middle or end of December account on payment of 20 per cent. deposit Shares not found in the above list may be purchased on application.

In order to save UNNECESSARY CORRESPONDENOE, it is particularly requested that BUYERS of SHARES in the above list, to which prices are not affixed, will make definite offers when applying for them.

58 EELLERS of SHARES are also invited in all cases to name the very lowest price at which they desire to sell.

58 EELLERS receive immediate attention. All shares cur-

SPECIAL BUSINESS in all INDIAN and FOREIGN GOLD MINES at closest current prices.

TELEGRAMS and LETTERS receive immediate attention. All shares currently dealt in, bought and soid, free of commission, spiscularity and soid an

JMBER, 1268.
ALFRED E COOKE, 9, OLD BROAD STREET, LONDON.
(Opposite the Stock Exchange, with which the offices are in DIRECT
TELEGRAPHIC COMMUNICATION.)

TELEGRAPHIC COMMUNICATION.)

MR. JAMES STOCKER, STOCKBROKER,
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Has special business in the following for cash or settlement by arrangement:

Akankoo, 2s.

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Bortridge, 5s. 3d

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MR. W. B. COBB, STOCK AND SHARE DEALER, 29, BISHOPSGATE-STREET, LONDON, E.O.

MR. CHARLES SANTER, STOCK AND SHARE DEALER,

R. CHARLES SANTER, STOCK AND SHARE DEALER,
3, COPTHALL BUILDINGS (close to Stock Exchange), LONDON, E.C.
las special dealings in the following Shares:—
Bedford United.
Killifreth.
Dolcoath,
Mounts Bay Consols.
Tincroft.
West Caradon,
West Caradon,
West Kitty.
Phoenix United.
Gunnislake (Clitters).
Considerable rise may be expected in several mines about to make returns,
uch as East Wheal Rose, Mounts Bay, Old Shepherds, Sortridge, Tresavean, and
West Devon.

A BBOTT AND CO., 9, CORNHILL,
LONDON, E.O.

NOTES on the FORTHCOMING RISES in FOREIGN STOCKS, RAILWAYS, and MISCELLANEOUS SECURITIES.
See November Circular, containing special information of great value to Investors, Shareholders, &c., sent post, free on application.

Special information on SILVER HILL, EAST WHEAL ROSE, and OLD SHEPHERDS.

HEPHERDS.

Application should be made at once for prospectus of

WEST WHEAL ROSE (LIMITED),

The shares of which are being rapidly applied for.

THE

"DIFFERENTIAL" PUMPING ENGINE. (DAVEY'S PATENT),

DRAINING MINES, WATER SUPPLY OF TOWNS, IRRIGATION, SUPPLYING DOCKS, PUMPING SEWAGE, and GENERAL PUMPING PURPOSES.

HATHORN, DAVEY, AND CO., LEEDS.

HATHORY, DAVEY, and Co. have Patterns of "Differential" Engines of all sizes, from 5 to 500-horse power, and have facilities for supplying very powerful Engines and Pumps at a short notice.

C H A R L E S T H O M A S, MINING AGENT, STOCK AND SHARE DEALER, 3, GREAT ST. HELEN'S, LONDON, E.C.

MINING AGENT, AND STOCK AND SHARE DEALER,

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PARE CASH. What shall I do with it? A new work for the

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"Invaluable to those who cannot attend the markets."

TO INVESTORS AND SHAREHOLDERS. SOUND DIVIDEND INVESTMENTS in STOCKS and SHARES of every marketable description, PAYING DIVIDENDS £5, £8, to £15

June, Dec.
April, Oct.
Feb., Aug.
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Do.
Co. Quarterly.
Do.
May, Nov.
Mar., Sep.
Jan., July,
Mar., Sep.
Jan., July,
Do.
Mar., Sep.
May, Nov.
April, Oct.
Do.

Bankers-London and County Bank, Lombard-street, London, E.C.

FERDINAND R. KIRK, STOCK BROKER, 5, BIRCHIN-LANE, LONDON, E.O.

Fortnightly Accounts opened in all Stock Exchange Securities on receipt the usual cover. BANKERS: LONDON AND WESTMINSTER, Lothbury.

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Mr. Reynolds transacts business in all descriptions of Mining Property at not prices. He is in a position to obtain reliable information respecting mining shares, and advises upon such information on the receipt of a fee of 21s. He spares neither time nor expense in securing for his numerous correspondents opportunities for obtaining the best investments. Fee allowed if business results. Mr. Reynolds calls attention to the fact of his having persistently recommended West Kitty shares ever since they stood at 20s. each, and that when they stood at 10s. he cautioned holders, and gave his opinion that they would reach £15 this year.

MR. JOHN RISLEY, STOCK AND SHARE BROKER,

18, CORNHILL, LONDON, E.O.

ESTABLISHED TWENTY YEARS.

West Caradon, New West Caradon, and New Caradon strongly recommended

West Caradon continues to open up very rich for copper, as will be seen by the weekly reports. The shares will no doubt command a very high price a few months hence.

GRANVILLE SHARP, STOCK AND SHARE DEALER 32, QUEEN VICTORIA STREET, LONDON, E.C., Recommends the purchase of shares in the EAST OHIVERTON SILVER-LEAD MINE, and WHEAL JANE TIN MINE.

BANKERS: LONDON AND WESTMINSTER, London, E.C.

ABBOTT, PAGE, AND CO., STOCK BROKERS,

42, POULTRY, LONDON, E.C. See advertisement on page 1365

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Consulting Mining Engineer, &c. Reports, Valuations, Surveys.

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MINING PLANT, MACHINERY, STORES, AND MATERIALS at greatly reduced prices,
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BLENDE, COBALT, and MANGANESE properties TO LET on this system

THE LIST WILL CLOSE ON MONDAY, NOV. 20TH.

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CAPITAL £30,000, IN 6000 SHARES OF £5 EACH.

FIRST ISSUE of 4000 SHARES, payable 10s. on application.

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ABRIDGED PROSPECTUS.

This company is formed to meet one of the most urgent wants of the present time—namely, the supply of all kinds of fresh, dried, and kippered fish, shell-fish, &c., direct from the sea-coast, also ice, poultry, game, &c.

The directors have secured on most advantageous terms the six first-class businesses so well known and trading as the Fish Supply Company, now going concerns, and the report of Messrs. Bennett

Rhondda and Swansea Bay Railway

A NEW AND SHORT THROUGH ROUTE BETWEEN THE RHONDDA VALLEY COAL FIELD AND THE SWANSEA BAY PORTS.

ISSUE of £450,000 in 45,000 SHARES of £10 each, payable as follows:—

£1 on application, £1 on allotment, £2 on 1st January, 1883. Further calls at intervals of not less than three months, interest at the rate of 5 per cent. per annum on the uncalled capital paid in advance. The liability of shareholders is limited to the amount of their shares.

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SOLICITORS—Messrs. STRICKS and BELLINGHAM, Swansea.

SECRETARY AND OFFICES—MR. H. S. LUDLOW, No. 8, FISHER STREET, SWANSEA.

ABRIDGED PROSPECTUS.

The directors of the Rhondda and Swansea Bay Railway Company, incorporated by Special Act of Parliament, which received the Royal Assent on the 10th of August, 1882, are prepared to receive APPLICATIONS for the SHARE CAPITAL of the company, amounting to £450,000, in 45,000 shares of £10 each.

The Act authorising this railway was obtained after a severe Parliamentary contest, and an exhaustive enquiry in both Houses.

Its object is the construction of a railway from the Taff Vale Railway, in the Rhondda Valley, to the Swansea Bay ports.

Official returns show the enormous extent and expansion of the coal trade of the Rhondda Valley. The population is now 13 times as large as it was in 1861, and is rapidly increasing.

The railway communicates with the Taff Vale Railway system, and will provide good access from the Rhondda Valley to Swansea and Swansea Bay ports, enabling shipping to obtain cargoes of Rhondda coal, which, although greatly required, cannot now be procured there.

Rhondda coal, which, although greatly required, cannot now be procured there.

The company's route will reduce the distance by rail from Treherbert, in the Rhondda Valley, to Swansea from 54 miles to 25 miles; the time from three hours to a little over one hour and a half; and the third-class fares from 4s. 8d. to 2s. 1d.

Thus more than 50 per cent., both in time and money, will be saved by the company's route, which will command the traffic.

The local traffic may be much augmented by through traffic in connection with the Taff Vale and other railways between Pontypool, Newport, and Swansea, the company's route being shorter than the present, and will pass for nearly the whole distance through the coal basin, thus accommodating the mining population.

Another very important feature in favour of the proposed railway is, that it will serve an extensive new coal field in the Avan Valley, through the centre of which it runs, and which contains practically unlimited quantities of valuable coal.

The mining and labouring populations of the Rhondda Valley have

The mining and labouring populations of the Rhondda Valley have at present to direct railway communication with the sea-side resorts and that with the natural growth of the traffic it will eventually rank with the most prosperous railway enterprise in the South the distance from 42 to 15 miles. Such facility cannot fail to create walls of the south value of the south valu a large holiday traffic. This railway will al

railway will also enable them to avail themselves of the wellsupplied markets of Swansea, Neath, and Aberavon, whilst the dairy and farm produce of Carmarthenshire and Pembrokeshire will find a

and farm produce of carmatenessine and remprocessine will find a ready sale in the Rhondda Valley.

The line falls practically the whole way, with the load, to the seaports—a special advantage for heavy coal traffic, as in the case of the Taff Vale Railway, worked with such eminent success and profit.

It is encouraging to note the large dividends paid by the other two existing railways carrying coals from the Rhondda and Aberdare Valleys to the seaport, vis.—

Valleys to the seaport, viz.:-

There are extensive docks at Port Talbot and Briton Ferry, and three excellent and well-appointed docks at Swansea, including the magnificent "Prince of Wales Dock," suitable for the largest ocean steamers.

The import trade into Swansea of minerals of all descriptions exceeds that of any other port in the kingdom, so that not only is the Rhondda steam coal required for shipment, but the small and bituminous coals are much needed by the coal consuming works—copper, silver, gold, lead, zinc, nickel, cobalt, tin-plate, iron, steel, chemical, complex-ore works, and other manufactories, which abound in the districts of Port Talbot, Briton Ferry, Neath, and Swansea. Swansea is also the chief seat of the patent fuel industry, Large quantities of coal for these and other requirements must necessarily pass over the company's railway.

sea is also the chief seat of the patent fuel industry. Large quantities of coal for these and other requirements must necessarily pass over the company's railway.

Swansea has the great advantage of being 45 miles nearer the ocean than any other great port in the Bristol Channel, and is the only one actually within the coal field radius.

Thoroughly to appreciate the prospects of the undertaking as a dividend-paying property, it should be borne in mind that the line when completed will not only create a large local traffic, but that from the exceptional facilities of transport and shipment which it will afford, it must command a considerable share of the coal export from the Rhondda Valley.

Taking as a basis for calculation the returns for last year, and assuming that 1,500,000 will be carried by this line, it would produce a gross revenue of £81,250, or deducting 50 per cent. for working expenses, a net sum of £40,625, alone sufficient to pay 7½ per cent. on the share capital of the company after providing for interest on the amount of the borrowing powers of the company.

If in addition to this the receipts from other sources, namely, the Avan Valley Coal Field, the passenger, local, import, and miscellaneous traffic, and the mails be taken at even the very low estimate of £23 per mile per week, it gives, after deducting 50 per cent. for working expenses, a further net income of £11,362, equal to 2½ per cent. on the share capital.

Thus it will be seen that, even from the opening, there is every reason to expect that it will be a 10 per cent. dividend-paying line, and that with the natural growth of the traffic it will eventually

The line is to be opened in sections as each is completed, and it is expected that the first portion will be ready for traffic in the course of next summer.

Shares will be allotted in order of priority of application; where o allotment is made the deposit will be returned in full.

Full Prospectuses, with Forms of Application, can be obtained of the bankers, solicitors, engineers, or secretary, 8, Fisher-street, Swansea. Also of the under-mentioned bankers, at Birmingham—Birmingham and Midland Bank.

Bristol—Messrs. Miles, Cave, Baillie, and Co. Gloucester—Gloucestershire Banking Compan Hull—Samuel Smith Brothers and Co.

Liverpool—Bank of Liverpool.
Manchester—Manchester and Salford Bank.
Salisbury, Wilts and Dorset Bank, Salisbury, and branches.
Truro—Devon and Cornwall Bank.

Treland—National Bank, Dublin, and branches.
Scotland—Edinburgh, British Linen Company Bank, and

Begistration of New Companies.

The following joint-stoccompanies have been duly registered

THE BECKENHAM PUBLIC HALL COMPANY (Limited).—Capital 10,000l., in shares of 1l. To provide and maintain a local hall, buildings, &c. The subscribers (who take one share each) are—M. S. Sturgis, Beckenham; C. E. Atkinson, Beckenham; R. Milburn, Beckenham; W. S. Vian, Beckenham; W. A. de V. Brownlowe, Beckenham; W. C. Sullivan, Beckenham; J. Hudson, Beckenham; P. Bicknell, Beckenham.

Beckenham; W. C. Sullivan, Beckenham; J. Hudson, Beckenham; P. Bicknell, Beckenham.

The Irish Industrial Co-operative Association (Limited).—
Capital, 10,000l., in shares of 1l. The purchase and sale of guaranteed Irish manufactured and other goods. The subscribers are-F. Porter, 30, Besborough-street, 10; J. Rogers, Bermondsey, 2; J. McGrath, 12, Park-street, 4; M. Higgins, 30, Bowles-road, 10; E. Power, Limehouse, 10; T. Kissane, 73, Long-lane, 10; J. Driscoll, Poplar, 5.

PATENT TRIANGULAR NAIL COMPANY (Limited).—Capital 10,250l., in shares of 5l. The importation, purchase, manufacture, and sale of triangular and other nails. The subscribers (who take one share each) are—W. J. Bordier, 44, Coleman-street; A. Clark, 44, Coleman-street; G. Beste, 44, Coleman-street; C. A. Bordier, 44, Coleman-street; G. Beste, 44, Coleman-street; C. A. Bordier, 44, Coleman-street; S. F. Ferrier, 44, Coleman-street; C. A. Bordier, 10l. The business of chemical manufacturers, chemists, chemical manure manufacturers, merchants, dealers, &c. The subscribers are—F. W. Berk, 1, Fenchurch Avenue, 100; R. Berk, 1, Fenchurch Avenue, 1; D. H. Wysmuller, 35, Mildmay Park, 1; T. F. Duncan, 14, Percy Circus, 1; F. Parr, 19, Lambton-road, 1; G. A. Berk, Clapton, 1; A. J. Greenip, 9, Gracechurch-street, 1.

GEORGE HOPTON AND COMPANY (Limited).—Capital 50,000l., in shares of 10l. To purchase and carry on a wheel and bent wood manufacturing business situated in Manchester-street, King's Cross. The subscribers are—W. Thornton, 164, Stanhope-street, 100; R. Kent, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; W. King, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; W. King, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; W. King, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; W. King, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; W. King, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; W. King, 83, Patshull-road, 100: F. Ohlson, Middle-lane, 100; R. Kent, 100; M. King, 100; M. King, 100; M. King, 100; M. King,

shares of 10t. To purchase and carry on a wheel and bent wood manufacturing business situated in Manchester-street, King's Cross. The subscribers are—W. Thornton, 16t, Stanhope-street, 100; R. Kent, 83, Patshull-road, 100; F. Ohlson, Middle-lane, 100; W. King, Leighton Buzzard, 100; C. Campion, 8, Acton-street, 100; J. J. Knight, 40, Hemingford-road, 100; J. Tuson, 4, Weston-street, 5, Company of Auctioneers, Valuers, and Estate Agents (Limited).—Capital 14,000t., in shares of 1t. These several businesses in all branches. The subscribers (who take one share each, are—J. A. Kilman, 227, High Holborn; A. G. Henderson, Wood Green; W. G. Mark, 27, Enfield-road; J. C. Luter, 9, Camomilestreet; D. Brodie, 27, Brownlow Mews; G. Alexander, 52A, Drurylane; G. A. D. Kelman, 229, High Holborn.

The Steamship "Euripides" Company (Limited).—Capital 28,800t., in shares of 10t. Purchasing, owning, and working said steamer. The subscribers (who take one share each) are—W. H. Legge, Liverpool; E. E. Wylie, Liverpool; H. K. Layborn, Liverpool; T. K. Legge, Liverpool; D. Layborn, Liverpool; T. K. Legge, Liverpool; D. Layborn, Liverpool; M. C. de Potherrier, Liverpool; H. Maryat, Liverpool.

The Waste Products Company (Limited).—Capital 100,000t, in shares of 1t. To acquirecertain patents and carry on the business of dealers in various products, and of engineers, machinists, importers of ils, &c. The subscribers (who take one share each)—A. J. Taulding, New Barnet; J. Hutchings, Cowley; G. H. Allen, 81, St. John's Wood-terrace; A. W. Paterson, Wood Green; F. Barton, Maida Vale; A. Kerly, 14, Great Winchester-street; A. L. Kerly, 14, Great Winchester-street; A.

Wood-terrace; A. A. Keily, 14, Great Winchester-street; A. L. Markey, A. Keily, 14, Great Winchester-street.

"Scaw Fell" Steamship Company (Limited).—Capital 36,500l., in shares of 100l. Purchasing, owning, and working said steamship. The subscribers (who take one share each) are—W. H. Fletcher, Liverpool; W. Stone, Liverpool; F. M. Hull, New Brighton; H. B. Smith, Liskeard; W. Gracie, Liverpool; E. A. Beazley, Liverpool R. Jackson, Liverpool.

The Capital Wine Company (Limited).—Capital 20,000l., in the Capital 20,000l., in the capital state one share each)

shares of 1l. To acquire and continue a business established at 55, Old Broad-street, E.C. The subscribers (who take one share each) are—C. A. Wilson, 52, Walterton-road; P. Skar, 110, Cannon-street; C. A. Walter, 55, Old Broad-street; R. Everitt, 55, Old Broad-street; J. W. H. Byrne, 14, St. Swithin's-lane; J. Melling, Dashwood House; R. Uhlich, 37, King William-street.

K. Uniich, 37, King William-street.

THE ALBION BAKERY COMPANY (Limited).—Capital 50,0007., in shares of 107. To acquire by purchase and carry on a business situate at 124, Brompton-road. The subscribers (who take one share each) are—W. Cox, 121, Brompton-road; J. W. Stubberfield, Brixton; W. Cutbush, 27, Hill-street; J. Best, Plymouth; W. Cleghorn, 131, Brompton-road; S. E. Snell, 51, Pimlico-road; A. Stebbing, 2, Madeira-road.

Slayer Chopp, Manyor and Company Chopp, Manyor and Carry Chopp, Manyor and Car

W. Cutbush, 27, Hill-street; J. Best, Plymouth; W. Cleghorn, 131, Brompton-road; S. E. Snell, 51, Pimlico-road; A. Stebbing, 2, Madeira-road.

SILVER CHORD MINING AND SMELTING COMPANY (Limited).—Capital 100,000/L, in shares of 11. To purchase, work, and develope certain mines situate in Colorado, and any other lands, mines; mineral properties, rights and interests in that State, or elsewhere in the United States of America. To deal in, sell, and dispose of ores and minerals, and generally to carry on the business of a mining, smelting, trading, and metallurgical company in all branches. The subscribers (who take one share each) are—A. Harvey, Tottenham, manager; J. Hugliff, Islington, agent; W. J. Twentyman, 264, Amherst-road, accountant; A. Clegg, East Dulwich, book-keeper J. H. Smith, Kennington, time-keeper; T. Williamson, Islington, accountant; W. J. Thomas, 81, Mildmay Park, correspondent. The directors must not number more than seven or less than four. The subscribers, until the directors are appointed shall act as such.

The Provident Industrial Society (Limited).—Capital 25,000, in shares of 11. The usual business of a provident insurance society. The subscribers (who take one share each) are—J. Treharne, 14, London-street; F. Lycett, 29, Great St. Helens; F. G. Treharne, 14, London-street; R. Thompson, Leytonstone; R. M. Topwith, Tottenham; W. B. Halls, 33, Skidmore-street; R. C. Sydney, 6, Grocers' Hall-court.

The United).—Capital 10,0001, in shares of 51. To acquire and continue the business of the United Coal Company (Limited) at Gravesend. The subscribers (who take one share each) are—J. Burgess, Gravesend; B. Hooker, Gravesend; J. Turner, Gravesend; W. Freeman, Gravesend; D. Hooker, Gravesend; J. Turner, Gravesend; H. Stephens, Gravesend; B. Hooker, Gravesend; J. Turner, Gravesend; H. Stephens, Gravesend; B. Hooker, Gravesend; D. Colborn, Gravesend; H. Stephens, Gravesend; D. Capital 10,0001, in shares of 51. To acquire and carry on in that town an artificial stone manufacturing business. The sub

PANY (Limited).—Capital 20,0001, in shares of 1l. To construct, maintain, and work a tramway in Buckinghamshire. The subscribers are—A. Culverhouse, Wolverton, 50; J. G. Johnson, Wolverton, 50; C. Aveline, Wolverton, 50; E. Hay, Stony Stratford, 50; J. Canon, Stony Stratford, 10; J. Pacey, Stony Stratford; W. Covington, Wolverton, 1; H. Aldred, Wolverton, 50.

THE NEW VAN CONGOLS AND GLYN MINING COMPANY (Light Control of the control of t

Wolverton, 1; H. Aldred, Wolverton, 50.

THE NEW VAN CONSOLS AND GLYN
MINING COMPANY (Limited).—Capital 80,000*l*., in shares of 1*l*. To acquire by purchase the leasehold interest of the United Van Consols and Glyn Lead and Barytes Mining Company (Limited) in the mines worked by them, along with the plant, machinery, stores, tools, and other property. To work the said or any other mines for the production of lead, zinc, copper, barytes, or any other ores, minerals, or metallic substances for the purpose of sale, and generally to carry on all operations connected with a mining and smelting company. The subscribers (who take one share each) are—P. Jones, Newtown, merchant; J. Cooper, 9, Coleman-street Buildings, accountant; J.

Rock, Helen Drew, Hall, THE Capita the sa 25 sha shares Theat: (who 29, A Uxbrid 94, Pe

United take o account Wyatt to qua THI 80,000 pathic ham, Queen 14, Ol

J. A. I THI Capita insura Allsup place lane; C. D.
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ore wa as the the pr The the re Rock, 56, Friday-street, merchant; J. C. Bolton, 26, Great St. Helens, accountant; T. H. Briden, Falmouth-road, clerk; E. J. Helens, accountant; T. H. Briden, Falmouth-road, clerk; E. J. Drew, Imperial Buildings, accountant; W. Stackpoole, Pinner's Hall, solicitor. The first directors are as follows:—Messrs. Rock, Jones, A. H. Sanderson, W. K. Bailey, and J. Petrie, jun: The number must not be less than three or exceed seven. Qualification 100

must not be less than three or exceed seven. Qualification 100 shares.

The Liverpool Zoological Gardens Company (Limited).—
Capital 20,000l., in shares of 1l. To establish and maintain same on the same basis to those at Manchester. The subscribers (who take 25 shares each) are.—W. R. Millward, Chester; T. M. Norris, Birkenhead; H. Heys, Liverpool; J. Makin, Liverpool; W. L. Jackson, Liverpool; A. D. Holmes, Liverpool; T. S. Tyrer, Liverpool.

The New Alcazar Company (Limited).—Capital 20,000l., in shares of 10l. To purchase the lease of the freehold of the Connaught Theatre, to maintain or otherwise dispose of same. The subscribers (who take one share each) are.—W. Berry, Tottenham; W. Brook, 29, Abbey Gardens; J. F. Barrow, Peckham; J. M. Dixon, 184, Uxbridge-road; E. Estcourt, 46, Hamilton-Gardens; D. C. Laughton, 44, Petherton-road; E. M. Robin, 46, Westerfield-road.

The Cumberland Lead Mines (Limited).—Capital 55,000l., in shares of 1l. To purchase or otherwise acquire and work silver, lead, copper, and other mines, minerals, and mining rights in the United Kingdom or elsewhere, and to work, sell, exchange, or let certain mines and rights acquired under an agreement. To buy, smelt, crush, wash, reduce, and amalgamate the ore and develope resources of such mines and mineral properties. The subscribers (who smelt, crush, wash, reduce, and amalgamate the ore and develope resources of such mines and mineral properties. The subscribers (who take one share each) are—E. B. G. McDougall, 24, St. Paul's-road, accountant; F. W. Binstead, 37, Cleveland-road, clerk; A. W. Wyatt, Kilburn, clerk; H. A. J. Macray, Brixton, clerk; T. C. Thompson, 16, Abbey Gardens, clerk; J. A. Ferris, 3, Calthorpestreet, law stationer; G. Haselgrove, Brockley, book-keeper, The ribers will constitute the first board. Future directors will have

subscribers will constitute the first board. Future directors will have to qualify in 100 shares.

THE TUNBRIDGE WELLS SPA COMPANY (Limited).—Capital 80,000*l*., in shares of 10*l*. To erect, carry on, and conduct hydropathic establishments. The subscribers are—T. F. Franklin, Clapham, 50; R. E. Tenant, 2, Park-square, 50; F. Manneld, 100, Queen's Gate, 50; L. Young, Tunbridge Wells, 50; E. A. F. Beard, 14, Old Jewry Chambers, 10; A. Cumming, 18, Doughty-street, 1; J.A. Pittis, Surbiton, 50.

THE NATIONAL MARINE INSURANCE ASSOCIATION (Limited).—Capital 100 0000*l*. in shares of 10*l*. To effect all kinds of marine

Capital 1,000,000%, in shares of 10%. To effect all kinds of marine insurances. The subscribers (who take 250 shares each) are—W. J. insurances. The subscribers (who take 250 shares each) are—W. J. Allsupp, 14, Finsbury Circus; T. H. Atkins, 6, Great St. Helen's-place; H. E. Gilman, Dashwood House; C. L. Grant, 38, Nicholaslane; N. W. Lewin, 44, Cleveland-square; H. W. Petrie, Chelmsford; C. D. Royds, 22, St. Mary Axe.

THE CHEMICAL MANURE COMPANY (Limited).—Capital 50,000l., in shares of 10l. The business of manufacturers and dealers in chemical manures and all articles incidental thereto. The subscribers (who take one share each) are—T. W. Hings Peckham; G.

chemical manufes and an articles incidental thereof. The subscribers (who take one share each) are—T. W. Hines, Peckham; G. Hasegrove, Brockley; T. Weathall, Walthamstow; J. A. Ferris, 30, Calthorpe-street; F. W. Eustace, Victoria Park; W. E. Rawley, Bowroad; W. J. Rawley, Bow-road.

Meetings of Bublic Companies.

UNITED MEXICAN MINING COMPANY.

The ordinary half-yearly general meeting of proprietors was held at the offices, Great Winehester-street Buildings, on Wednesday,
Mr. GEORGE HARRIS in the chair.
Mr. W M. BROWNE (the secretary) read the notice calling the

Mr. W M. BROWNE (the secretary) read the notice calling the meeting.

The report stated that the Mexican statement of accounts, and the London audited baiance-sheet for the six months ending June 30, 1882, showed that the excess of outlay for the said period on the old concern amounted to \$2610. The gross outlay on the mines in the new concern during the half-year was \$23,903, the returns in silver only amounting to \$610, showing a net expenditure of \$22,932. The original corners, however, paid their share \$4241, leaving a balance of \$15,952, which no dividend on account of the respective debts has been received from the owners of the mines of Rayas and Jesus Maria: 18 arrastres were kept going in poor ore till the month of March, and early in April the Commissioner increased the stamping power to 24 mills, which were still at work in September. The estimate for the six months shows a profit of \$350 on the bacienda operations. As regarded the new concern and the adit of San Cayetano and mines of San Miguel de la Providencia, Buenos Ayres and El Diamante, nothing has been done except the necessary repairs. The mine of San Antonio de la Ovejera being in direct communication with San Cayetano de la Ovejera, Santa Monica and the adit bevel, a great part of the entire traffic was carried on through its works. It was intended to continue the Pozo de Santa Engracia down to the level of San Juan but this plan, owing to the rapid advance in the works of San Juan had been modified, and a vertical shafe would now open out the ground which was destined to be explored in Santa Engracia. The cross-cut of San Juan south in the mine of Santa Monica at 193 meters depth had been continued with the was destined to be explored in Santa Engracia. The cross-cut of San Juan south in the mine of Santa Monica and 193 meters depth had been continued with the was destined to be explored in Santa Engracia. The cross-cut of San Juan south in the mine of Santa Monica at 193 metres depth, allowed the works of San Juan which was a supplementa The report stated that the Mexican statement of accounts, and the

I metre, and it was hoped that the lode would make both upwards and in depth through the ground traversed in the level. The ore extracted in four weeks from its first discovery on Aug. 7 was sold in Duran for \$3308, and in the two weeks of Beptember it produced \$2907. Mr. Rocha was inclined to think that he new discovery in Sen Juan might be a continuation of the ore which was discovered and worked on in La Purisima at 93 metres depth, but he declined to give a positive opinion thereon till the new works can be surveyed with care and attention after further exploration, as his observations must be connected with what has been laid open in San Mateo, La Purisima, and the surface works on the border of the ground of El Dismante. In conclusion, the directors, relying upon the concurrent testimony of the commissioner and engineer, certainly consider that the discovery recently made must be looked upon as valuable. The cre was good, and spoke for itself, and it would appear that more must be found as the works advanced. Mr. Rocha, in his report, said:—"You will see that the present prospects of this concern are good, and I expect that they will be better when the communication with San Lazaro is made." The directors consequently congratulated the proprietors on their greatly improved prospects, and sincerely hoped that after so many years of trial under adverse vicinstitudes, a brighter dawn may have arisen upon the company's future undertakings.

The CHAIRMAN Said—Gentlemen, I rise to move the adoption of the report and accounts. In doing so I wish to state that we meet

the report and accounts. In doing so I wish to state that we meet you with greater satisfaction on this occasion than we have been able to do for the last seven or eight years. You will see that the report gives you all the information of which the directors are cognisant, but yesterday we received a subsequent despatch, since the report was printed, which I will ask the secretary to read.

report was printed, which I will ask the follows:—
The SECRETARY read the despatch, as follows:—
The SECRETARY read Guanavuato, Oct. 6: Mine of Advices from Mr. Hay, dated Guanaxuato, Oct. 6: Mine of San Cayetane de a Ovejera: We have sunk in the winze of San Lazare in two weeks to Sept. 30

5-75 metres; total 35-50 metres. We have just discovered a wall with natural underlie, showing a ramification of quarta, but the bearing of the reliz is not yet clear. As we sink, the foul air is at times so strong that the work has to be abandoned for a short period. I have borrowed a blowing machine, which I believe will allow us to carry on the work without interruption. In the end of San Juan we have driven in two weeks to Sept. 30, 5 metres; total, 225-35 metres. The width of the ore in this end has augmented a little, and measures now 30 centimetres, and it seems to be good. You will see see by the liquidation of last week that the value of the ore was greater than that of the preceding week. The same has happened with the ore of the contraciclo of Santa Rosa which has now a breadth of 55 centimetres. To yesterday we have received 70 cargas in Duran, and we expect a few more to-day. The class seems to be equal to that of last week, that of Santa Rosa has a better appearance. The accounts of the mines for last month give the following results:—Value or ore from San Cayetano for four weeks ending Sept. 30, 3479-25; less amount of mine outlay, \$3581-56; profit on the mine for San Cayetano, \$1197-70; less amount of outlay of Santa Monica, \$607-77; profit on the new concern, \$559-33. As we have abandoned the winze of Esperanza, and the end towards the costras of San Mateo, I expect the outlay for this week will be much less than hitherto.—Mine of Sant Sont As and Monica; We have driven in the cross-cut of San Juan south in two weeks to Sept. 30, 3-95 metres; total, 131-43 metres. This working was abandoned late Saturday, but we will resume work as soon as the communication between San Juan and San Lazaro is made, if then it should be on sidered necessary to go on with the cross-cut.

The CHAIRMAN: You will see contlemen, that we continue to

Son, 20, 395 metres, total, 31-35 metres. This working a tow week that Sept. 30, 395 metres, total, 31-35 metres. This working a tow week that Sept. 30, 395 metres, total, 31-35 metres. This working a tow week that Sept. 30, 395 metres, total, 31-35 metres. This working a tow week that Sept. 30, 395 metres, total, 31-35 metres, total, 31-35 metres, and and a toward the communication between San Juan and Sen Lazaro is made, if then it should be considered necessary to go on with the cross-cut.

The CHAIRMAN: You will see, gentlemen, that we continue to receive very capital despatches, which certainly lead us to suppose now that we have got an important lode in the very deepest part of the mine. The works at present are only of a small character, as they are very muchlimpeded for want of air, but we are sining a vertical shaft, which will take about eleven weeks or three months to hole down to the San Juan adit level, and then we may work away vigorously. The ore is continuous, and of a very rich quality. We are driving two points both in good ore, and it is natural to suppose that at last we have obtained what we have been looking for for some years—a continuous lode, which we can work at a profit. I regret very much to say that our experienced honorary consulting englueer, Mr. Furber, who is always most anxious to afford information to the proprietors, who is a thorough miner, and who has been our chief commissioner to the mine, and has had an experience of more than 30 years in Mexico—I am sorry to say that his illness will prevent his attendance here to-day. You are all aware how very attentive he is and always has been to afford information to the proprietors, who immediately after the receipt of a despatch comes here to read it. You can all bear testimony to his zeal in explaining the plans, and pointing out to you the workings of the mine. I may mention that Mr. Furber has expressed a very decided opinion that this is a continuous lode, and he also very much likes the last subsequent despatch, which has be

THE WENTWORTH GOLD MINING AND INDIAN ESTATES

COMPANY.

The second ordinary general meeting of shareholders was held at St. Michael's Hall, George-yard, on Tuesday,

Mr. HENRY WHELER MAYNARD in the chair.

The SECRETARY having read the notice convening the meeting, the

St. Michael's Hall, George-yard, on Tuesday,

Mr. HENRY WHELER MAYNARD in the chair.

The SEGETARY having read the notice convening the meeting, the report of the directors was taken as read.

The CHAIRMAN said it became his agreeable duty, for such it was to him on this occasion, when he felt that just now all good enterprises connected with India command our very continued and earnest, he would not say anxiety, but certainly interest, to meet the shareholders of this company with a feeling that he had to place before them a report which before he sat down, and certainly before the business was concluded, they would be able to feel was eminently satisfactory. He trusted that he would be able so to put before them matters in that respect that they would be perfectly convinced that such was the case. With regard to the capital, they were all aware how well it was subscribed. It was fully subscribed, and, therefore, they started with all the power that a company fully-subscribed always had. He had also to congratulate them on the number, the extent, and the character of the shareholders. He found that there only remained unpaid call to the extent of 30%, a position that he thought very few new companies could be said to occupy. Upon the last call, which was made in November, two months' grace was allowed, until January—and then was put on what they were entitled to do by the Articles of Association, interest of 10 per cent. which he was glad to say, with a few exceptions, had been very cheerfully met. From sundry causes and bankrupticles, 635 shares had been forfeited, but they had been disposed of without any loss whatever to the company; therefore, he thought, as far as their share list was considered, they had everything to congratulate themselves upon. The 10 per cent. Interest had been rigidly enforced, and, with some exceptions, it had been readily paid. Passing to the law charges, they would find legal expenses in India, &c., 100%, that was deposited, as they were compelled to deposit it towards paying cer carried on, and the trees themselves seemed to be in such a nealthy condition that they had dropped seeds which had begun to germinate in the ground, so that, instead of spending many hundreds of pounds on new seeds, they would probably be able to supply themselves with seedlings and others also. As far at the cultivation of cinchons had proceeded, at present about 42,000 lbs. of the cinchons had been harvested, and that was somewhere about one-third of the cinchons had been harvested, and that was somewhere about one-third of the cinchons wet was a very different thing. The dry weight was about a third to a fourth of that of the wet, and when he divided that by three he had a result of something like 13,000 lbs. of dry bark, or about a third of the whole of what they would receive from their crop this year. He would also add that the value of the cinchons, not only here but in Germany, was increasing, but taking the average value at the low price of 1s. 6d. for the dry and 3s. for the renewed bark, which was more valuable, he found the estimated returns come out as follows:—For the year 1833, 38001.; for 1824, 72001.; for 1885, 90001., and for 1886, 13,0001. The average of a few years was something like 10,0004. or 11,0001., as that in the coffice estates they were leased to the vendor for 20001. Per annum, which had been paid, and, therefore, at present he need say nothing more about that. Having spoken in the highest terms of their manager, Mr. Ryan, he referred to the enormous area of their estates, about 2000 acres—the variety of its climate and soil, and mentioned that the timber on it was very fine and valuable. He moved the adoption of the report and accounts.——Mr. Ewine seconded the motion.

Mr. Sichellell: In the estimate of cinchona have you taken off the cost of

notion.

Mr. SICHELL: In the estimate of cinchona have you taken off the cost of production P—-The CHAIRMAN: The sale of the pruning will cover all the $\cos t$ fharvesting. After cinchona has been grown for some time the expenses are very small, which is a great advantage.

Mr. BLADON said, he had been very much pleased with the statement of the hairman. He did not think the estimates with regard to the return from cin-

chona were at all sanguine.

Mr. HARYEY, in reply to questions, said the testing machinery was used before any large quantity of ore was run through the mill. The enormous extent

of their property, and the enormous number of visible outcrops had entailed an immense amount of labour and expense. Without labour and without expense they might say to their engineer what have you been doing? You say you have reefs, can you tell us what is in them? That was what he had been endeavouring to ascertain. The property was so extensive, and the outcrops so immense and numerous, that the advice he gave to the directors for them to adopt was to apply as small battery, to have nothing to do with assays, and when there was a sufficient quantity of material fit to put through the mill to make use of the mill, and on the result of the mill either to proceed with the exploration or to abandon it. In several instances that had been done, and he was sorry to say the results had not yet justified the expenditure. Still, In a large estate such as theirs it would not do to condemn a portion because their first attempt was a failure. There were many large and massive reefs yet to be tested, and which their manager was now vigorously operating upon, and until those results had been attained and the value ascertained by actual results he was unable to say whether their gold mining operations would be productive or not. Mr. BLADON asked whether it was desirable to test surface stone—whether they ought not to test below a certain point, because the stone would be found richer the lower they went?—Mr. HLEVEY replied that it was the opinion of many gentlemen that it did get richer in deepth, but he differed from them. In all their trials, he thought some three in number, they had been made at a depth varying from 22 to 40 ft. No surface stone had been tried; the object had been tracing the surface indications to see whether the surface indications led up to a reef, and the result of the trial had been taken from the reef, as he had stated, at 20 to 40 feet. Referring to cinchona, he said that their was one of the finest estates in the whole of the district, and if the mining operations failed entirely the cinchona al

THE COPIAPO MINING COMPANY.

THE COPIAPO MINING COMPANY.

An extraordinary general meeting of shareholders was held at the offices, Dashwood House, New Broad-street, on Tuesday (Mr. T. K. Weir in the chair), for the purpose of confirming the following resolutions passed at the extraordinary general meeting of the members of the company, held on Oct. 23:—

"That article 19 of the Articles of Association of the company be and the same is hereby substituted for the same:—19. Any share so forfeited shall be deemed to be the property of the company, and may be disposed of in such manner as, the board of directors think fit."

"That the following shall be an Article of Association of the company:—20a. Any shares represented by certificates issued to the shareholders on the original formation of the company in 1838 may be forfeited by a resolution of the board of directors to that effect, if such certificates be not deep sited at the registered office of the company for registration by a day to be meed for the purpose in an advertisement in not less than two London daily newspapers, sublished and circulating in the City of London, and any such shares so forf-ited shall be deemed to be the property of the company, and may be disposed of in such manner as the board of directors think fit."

"20a. Any shareholder whose shares represented by unregistered certificates have been forfeited shall, notwithstanding, be liable to pay to the company all calls owing upon such shares at the time of the forfeiture, with interest at 5 per cent, till payment."

Mr. RALPH S. ARCHBOLD (the secretary) read the notice calling the meeting. The minutes of the previous meeting were read and confirmed.

Mr. Pickus inquired whether the directors intended to sell the forfeited shares, or offer them for sale by tender to the shareholders?—The Chairman said they would be offered by tender to the shareholders?—The Chairman said they would be offered by tender to the shareholders, and every shareholder would have an opportunity of tendering. As a matter of fact the directors h

BELT COPPER MINES.

on the motion of Mr. Harker a vote of thanks was passed to the Chairman and directors, and the neeting broke up.

BELT COPPER MINES.

The statutory meeting of shareholders was held at the offices of the engineers to the company, Messrs. Bainbridge, Seymour, and Rathbone, Great George-street, Westminster, on Tuesday,

The Right Hon, the Rarl of Denbiggin in the chair.

The CHAIRMAN said of Gentlemen, you will understand that this is our statutory meeting; therefore, I shall confine myself mostly to giving you the details of what we are doing, and what our prospects are. If any gentleman wishes to ask for further particulars afterwards we shall be happy to answer any questions which are put to us. We have allotted upon shares sufficient to give us a working balance of 75,500t. We have an allotted upon shares sufficient to give us a working balance of 75,500t. We have a small amount of capital that is not yet paid up—a very small amount indeed—and the outlay that has been estimated for getting the works into order so that we may at once begin sending copper to the market, I think may be said to be about 45,000t, at the outside. You will see by the report that I shall read presently what is the nature of the estimated outlay. Our title has been examined and approved, and the conveyance to the company has been duly recorded. We have deputed one of the members of our board—Mr. Woiseley—to visit the property, and we have this morning received a report from him, which is seen the confidential report. It is here on the table that you may look at it if you like. You will have noticed from the first sheet issued to the public that the blueman and drast Vestern are contiguous mines, bought at the same time in the blueman and drast Vestern are contiguous mines, bought at the same time in have here has about that percentage. Mr. Coxon has been explaining to that the whole line. With respect to the Atlantic Mine, Mr. Coxon has been explaining to the third work of the property of the work of the property of the work of the pro

tinue to assist morally the efforts of Mr. Brand in laying out the works, within six months I believe you will have a dividend-paying mine second to but one in the Lake Superior district—the first being the Calumet and Heela. Their shares were at \$25 some time ago, but now they were as high as \$240. I cannot help congratulating you, gentlemen, in having become possessed of so fine a property. I have seen mining carried on from the northernmost parts of Nova Scotia to Nevada and California; but if I had some thousands to invest I would rather invest them in the copper regions of Lake Superior than in the districts which I have just spoken of. (Cheers.)

Some rich specimens of native copper and other deposits taken from the property were exhibited and inspected by the shareholders.

Col. Hare proposed a vote of thanks to the Chairman and directors, and Mr. Wolseley, specially, and congratulated his follow shareholders on the acquisition of so valuable a property.—Mr. Claus: seconded the proposition, which was carried unanimously.

or so valuable a propercy.—ar. Claim seconded the proposition, which was carried unanimously.

The CHAIRMAN, in returning thanks, remarked that Mr. Wolseley had accomplished an immense amount of work in a very short time. In three weeks he had been down six mines, and the directors had received private information that he had examined everything most minutely. Mr. Wolseley would be back in England in about six weeks' time, when the directors would be put in possession of a quantity of minute evidence which would be of immense assistance to them.

On the motion of Col. FRED CAMPBELL, seconded by Mr. R. CUNNINGHAM, a vote of thanks was passed to Mr. Coxon. The proceedings then closed.

WHEAL PEEVOR MINING COMPANY.

WHEAL PEEVOR MINING COMPANY.

The ordinary general meeting of shareholders was held at the mine, on Thursday,—Mr. THOMAS PRYOR (purser) in the chair.

The usual preliminaries having been disposed of, the statement of accounts was submitted, showing that the total cost was 5069/L, and the total credit, including 50 tons of tin sold for 2931/L, were 3093/L, leaving a loss on the four months' working of 1875/L, and a total debit balance of 2390/L. The report of Capts. W. T. White and T. C. King, the agents, was also submitted. It stated that they had again set their engine-shaft to sink below the 100 fm. level by a full pare of men, at 45f. a fathom. It was intended to push this on as fast as possible, in order to obtain, if possible, more satisfactory results at the 110 than they had at the 100. This 120 fm. level was driven west of cross-cut on the flat lode 5 fms., and the lode appeared to improve in character and appearance. They believed that would be the case throughout—or at least until if formed a junction with the main tin lode—which they calculated would be in about 20 fms. further drivage. This was a most important point, and they looked upon it as one that would place them in a far better position than they now were. They had driven the 90 fm., west of cross-course, 7 fms., and cut the slide; for this distance the lode was worth 12/L a fathom. They hoped, in 2 fms. drivage, to get through the slide, and to find the lode as productive as it was. The cross-cuit, driving north to the middle lode at the 90, was being forced on with all speed, and was already in 5 fms. They expected to cut the lode in about 14 fms. more. This lode had proved productive from slide to boundary at the 80 fm. level, and they had every reason to expect the same at the 90. When this ground was properly laid open they hoped again to increase their returns. They were sorry that they had every reason to expect the same at the 90. When this ground was properly laid open they hoped again to increase their returns, They were sorry that

reached, would again enable them to increase their returns, and considerably improve their position.

The CHAIRMAN said it was 5½ years since the last call was made prior to that day, and in the interval they had had a succession of dividends at their meetings. But when in former years losses were made they went on the principle of making calls to meet them, and he believed they had acted wisely to follow the rule that day. Such were the prospects of the mine that he believed that in a month or two they would be in a much better position. It was 5½ years since they began to pay dividends there, and in that time they had divided 26,025L, or 8L. 13s. 6d. per share.

were the prospects of the mine that he believed that in a month or two they would be in a much better position. It was 5½ years since they began to pay dividends there, and in that time they had divided 26,025£, or 8ℓ. 13s. 6d. per share.

Oapt. White regretted as much as the Chairman that a call was necessary, but he assured them that if ever they had bright prospects in Wheal Peevor they had them still. Certainly the mine could not have looked worse than it did when he undertook the management, and their position was much better now. They had three or four points to look forward to that he thought would turn out by-and-bye remunerative to them. These points were at the 190 lnn. level, and in the 90 west on the south lode, and on the tin lode west of the slide, which he was pleased to say was cut on Wednesday. This slide they calculated would be 2 fms. thick, and west of that slide at the 90 and he could see no reason why they should not anticipate seeing as good a lode at the 90 as the 80. As to the 80 west of the same slide, on the middle lode, they had driven the end to the boundary, and for the whole of the distance from the 70 the ground had been stoped, and had averaged between 2½ to the ton. These points were encouraging, and the shareholders might reat assured the agents would do their utmost to satisfactorily realise them.

Mr. Wickert enquired whether it would be wise to drive a cross-cut south at the 100 to ascertain whether the main lode was in that direction.

Captain Whiter semarked that this was a matter they had been discussing ever since they had sunk the shaft to the 100. He certainly thought it would be a good thing to put a cross-cut on the south, as it was quite possible the lode was thrown in that direction, but there were stronger reasons for believing that it was thrown to the north. His reason for believing that the dode was thrown in that direction, but there were stronger reasons for believing that it was thrown to the north. His reason for believing that the same time the south lode

nuence of the nat lode, where they had a lode gone down in the 90 worth 201, per fathom.

Captain Kino concurred in the remarks of Captain White, and believed that after a time they would have increased returns.

The report and accounts were then unanimously adopted, and on the proposition of Mr. Thompson, seconded by Mr. A. RICHAEDS, a call of 10s. per share was made, the proceedings terminating with the usual complimentary vote to the Chairman.

WHEAL CREBOR MINING COMPANY.

The ordinary general meeting was held at the office of the com-

WHEAL CREBOR MINING COMPANY.

The ordinary general meeting was held at the office of the company, Gracechurch-street, yesterday,

Mr. J. Y. WATSON, F.G.S., in the chair.

Mr. C. B. PARRY (the secretary) read the notice convening the meeting The accounts from July 9 to Oct. 31 showed a balance of receipts over payments of 10221. 10s. 5d., and a balance of assets over liabilities of 28161. 3s. 8d. The profits on the four months' working was 14811. 0s. 3d.

b. The CHAIRMAN said. The accounts presented to-day show sales of copper ore of 40511. 11s. 7d.; mundle, 1991. 11s.; discount, 21. 11s. 5d.; making total receipts, 42534, 14s., and a profit in the four months' working of 16811. 0s. 3d. Since the last meeting they had paid off every debt on the mine, and come before you to-day without a single liability beyond small ones for dues on ore not yet made up. We have cash in hand 10221. 10s. 5d., and assets over liabilities of 30161. 3s. 3d. At the last meeting it was determined to put by 504, per month, to meet the 13th month, which comes into the accounts once a year, and if we deduct this from the profit it will leave 1481. 0s. 3d., so that a dividend of 2s. 6d. per share can be declared before the process of another sale of ore will be received to be provided for before the process of another sale of ore will be received as the bottom levels are getting into ore, and for the coming four months the agents hope to sample 800 tons of copper ore and 150 tons of mundic. There are one or two things we have now to refer to, and to take the further wishes of the shareholders upon. Some years ago a resolution was unanimously passed that the public inspection of the mine should be limited to one day a fortinglit, as the segments complained that indiscriminate and daily inspections interferred too much with the underground workings and the raising of the ore. To this resolution the committee leave been compelled to adhere; but since the last insecting a shareholder has demanded an order to inspect on a non-inspecting doy, an

relieve myself of this responsibility if, as shareholders, we cannot go on harioniously together. The Chairman then moved the adoption of the agent's report and statement

Mr. SCHOPIELD seconded the motion, which was carried unanimously.

Mr. SCHOPIELD seconded the motion, which was carried unanimously.

On the motion of the CHAIRMAN, seconded by Mr. ATKEY, a dividend of s. 6d. per share was declared.

Mr. SCHOPIELD remarked that during the four months they had paid off merchants' bills to the extent of between 700l. and 800l. more than had been considered to four months.

merchants' bills to the extent of between 1000, and 5000, how behalf of Mr. Burgan, incurred in four months.

The SECRETARY read a letter from Mr. F. Clift, solicitor, on behalf of Mr. Burgan, intimating that he had made an application to the Vice Warden of the Stannaries Court to rescind the resolution passed by the shareholders on Nov. 6, 1879, to the effect that the mine should be inspected independently once a fort-

matter was fully discussed, and Captain Andrews, the then agent, stated to the meeting how greatly the frequent visits of inspection interfered with the proper working of the mines.

Mr. Burgan said there were not three mines in the two counties—indeed, he believed there was only one other besides Wheal Crebor—where there was such a prohibition as that imposed by this resolution. He did not know of any other mine, except East Caradon, where such a prohibition existed.

Mr. Scroffeld remarked that the same rule was certainly in force at South Caradon and Marke Valley, and he believed at several other mines.

Mr. ORLANDO WERD thought the question was not whether other mines allowed a more frequent inspection of their properties, but whether it was desirable that the resolution already passed by this company should be supported. (Hear, hear.) He was distinctly of opinion that the resolution was a very judicious one, for he could conceive nothing more monstrous than these daily interferences with the men and the managers, more especially as such inspections were not undertaken to benefit the mine or the shareholders at large, whose interest was that the work should be prosecuted fairly and diligently. (Hear, hear.) That could not be done if the managers and the men were continually being interfered with. He strongly supported the resolution which had been passed unanimously after a great deal of discussion.

The resolution was objected to by Mr. CLIFT and Mr. Burgan.

The Chairman moved that the application to resolution resolution should be opposed.—Mr. Schoffleld be seen and ment that the resolution of Nov. 6, 1879, should be resoluted.—The amendment that the resolution of Nov. 6, 1879, should be resoluted.—The amendment was ecconded by Mr. CLIFT, and, on being put to the meeting, the amendment was carried.

A cordial vote of thanks to the Chairman closed the meeting.

INDIAN GOLD MINES COMPANY.

An extraordinary general meeting of shareholders was held at Glasgow yesterday (Friday),
Mr. J. C. CUNINGHAME in the chair.

Mr. J. C. CUNINGHAME in the chair.

The usual preliminaries having been disposed of the report of the directors was submitted, and stated that in order to develope the mines more funds would be required. The results hitherto had not been so favourable as the directors had anticipated, but it was thought that matters would now improve. It had now been ascertained that the reefs extended downwards. Mr. Severn. the manager, had informed the directors that he had cut a heavy reef on tunnel road 400 ft, from surface. In a communication dated Sept. 22 Mr. Severn stated that two trials of quartz had been made, one of 7 tons yielding 250 grains troy melted gold, and the other

Sopt. 22 Mr. Severn stated that two trials of quartz had been made, one of 7 tons yielding 250 grains troy melted gold, and the other 1½ ton yielding 58 grains. He considered that for a first yield this was not bad, but that the stone was too near the surface. Writing Oct. 2, Mr. Severn said that everything was going on first class, and it was expected that a great stride would be made in work in the forthcoming months.

The CHAIRMAN in moving the adoption of the report read a letter from Sir W. Cuninghame, resigning chairmanship of company simply and solely because of strictures made on management at last general meeting which seemed to him unreasonable, vexatious, and undeserved. The Chairman further said that he was happy to inform the meeting that the Rajah of Nellambore had signed the lease which the company had tried to get signed for the last two years. (Applause.) A case of pyrites, supposed to contain a considerable quantity of gold, had been received from India; but he regretted that the result had been rather disappointing, as they found that it did not contain what the directors had been led to found that it did not contain what the directors had been led to found that it did not contain what the directors had been led to expect. He was sorry to say that it would be necessary to make a further call of 2l. 10s. per share on the new shares, payable in two instalments. That money, however, would last nearly a year, even supposing that they got no return from the mines.

Some shareholders proposed that the company's interest in Devala Central Company should be sold, but it was explained that there are difficulties in the way.

The report was adopted, the filling up of the vacancies in the board being left in the hands of the directors.

WEST PRUSSIAN MINING COMPANY.

WEST PRUSSIAN MINING COMPANY.

The ordinary general meeting of shareholders was held at the offices, Westminster Chambers, Victoria-street, on Wednesday,
Mr. Brinsley Nixon in the chair.

Mr. Emile Garcke (the secretary) read the notice convening the meeting, and the minutes of the preceding meeting, which were confirmed. The report and accounts were taken as read.

The Chairman said there was very little to be added to the information contained in the reports of the directors and manager; but Mr. Wyndham Wynne, the manager, was present, and would be happy to answer any questions which the shareholders might desire to put on the position and prospects of the company. In their report the directors expressed their regret that the results of the past year's working was unfavourable. The average price received for the lead sold during the year was the lowest the company had experienced. In most of their mines, in Heidberg especially, the cost of raising the lead was a heavy one, so that the low price of lead affected them very considerably. Moreover, some of the mines had fallen off in productiveness, and they were obliged to seek new sources of produce.

Mr. Fylem asked whether the Heidberg Mine could be worked at a profit if lead advanced to 18t. a ton?——Mr. Wyndran M. Wynne (the manager) said that since last year the Heidberg Mine had deteriorated somewhat considerably. They had not yet got into the course of paying ore which they had expected to reach, and it would be necessary to sink deeper and develope the mine more, and at the present price of lead it would scarcely pay to do so. Unless there were a rise in lead and a promise of better prices he would not recommend them to develope the Heidberg Mine further for the present.

The Chairman added that Mr. Wyndram Wynne recommenced the opening up of some of the other mines of the company.

Mr. Wynk, in reply to further questions, said it would take from 18 months to two years to bring this new mine into a paying state. It would then give them a profit of, proba

count's were adopted. The retiring directors—Colonel Charles Wynne and Mr. Brinsley Nixon—were -elected, and the auditor, Mr. E. Woodington, was re-appointed. The meeting closed with a vote of thanks to the Chairman and directors.

COOTACOVIL GOLD MINING COMPANY.

The report of the directors prepared for presentation at the meet-In the report of the directors prepared tor presentation at the meeting to be held on Tuesday states that notwithstanding all the draw-backs occasioned by an extremely heavy monsoon, such as has not occurred within the memory of the oldest resident in Wynaad, the work of opening the mine sufficiently to commence steady operations has been virtually accomplished. Up to Sept. 30 the rain gauge showed a total of 331½ in, and as every inch represents a volume of 100 tons of water per acre, some idea of the difficulty of carrying on.

tions has been virtually accomplished. Up to Sept. 30 the rain gauge showed a total of 331½ in., and as every inch represents a volume of 100 tons of water per acre, some idea of the difficulty of carrying on any work under such circumstances may be readily imagined. The most serious damage caused by the monsoon was the closing of the middle adilt by an extensive landslip, and in the treacherous state of the ground, it was considered advisable to delay re-opening it until the heavy rains were over. According to the latest advices received the reef had again been reached, the adilt was being secured, the finishing touches were being given to the machinery, damage to water-course repaired, and the tramway completed to convey the quartz to the stamp mill.

About 500 or 700 tons of quartz were taken from the reef by the upper and middle adilts before the commencement of the monsoon, and this quantity will provide work for half the stamps for about a month, during which the mainevel will be opened at a depth of 220 ft. from the crown of the ridge, and form the outlet through which all the quartz will eventually be conveyed to the reduction works. Progress, however, is somewhat slow, owing to the extent of blasting required. So far as can be estimated, the Cootacovil Mine will be in full work at a cost of 17,000 t. 018,000 t. and a very moderate out-turn of gold should, therefore, suffice to pay fair dividends. It is, of course, impossible for them to forecast the precise number of pennyweights per ton obtainable por cushing in bulk, as distinguished from assay tests; but so far as their know-ledge is concerned, nothing has occurred to alter the favourable opinion expressed by Mr. Harvey of the value of the reef, and by the end of the month, or early in December, it is hoped his expectations may be fully justified by ascertained results.

The crushing and concentrating arrangements of this company, as designed by Mr. Harvey, differ in some important respects from those of any other company in Wynaad, and although the

sider it unreasonable to expect the first crushings to yield the maximum results which will probably be obtainable after experience of its peculiarities. No difficulty is apprehended with the pyrites, but before engaging an expensive reduction officer, or deciding on the process to be finally adopted for their treatment, a quantity will be sent to England for the purpose of being tested in different ways. The question of labour has from the outset engaged the serious attention of the directors, and the experience gained, shows that native labour, under proper European guidance, may be safely relied on for mining work; while for boring and blasting. Chinamen have been found very efficient. The available spare land belonging to the company will be planted up with cinchona, of which about 28,000 plants have been put out, and 50,003 seedlings are in the nursery for next season. In this way a reserve fund may be quietly accumulated at a small annual cost.

for next season. In this way a reserve fund may be quietly accumulated at small annual cost.

TINOROFT.—At the meeting on Nov. 2 (Mr. W. Teague in the chair) the accounts showed a loss on the four months' working of 2661l. 11s. 10d., and a total debit balance of 4336l. 11s. 5d. The Chairman, in reply to an enquiry said that they were very poor at the bottom of the mine, indeed they had no lode there. That was where they came to grief. They had a very large lode almost from the very shallow level down to the 274, and a little below that. That lode had, however been cut off by an elvan course, which came right across it. In the present shaft they had sunk they had suspended the driving of the level at the 280, in consequence of having nothing to drive on, so they had stoped all the ground they could. Their only hope in the west part of the mine was their getting down into the same run of ground as they had in Cook's Kitchen. They were not so deep as Ook's Kitchen, the level of which was 20 to 30 fms. up to their boundary. This was the hope they had. He believed the same ground they were now passing through was experienced in Cook's Kitchen. It had always been hoped that Duncan's and Chappel's lodes would unite, and this they had done. There appeared to him to be an incline at the top of the elvan, but they had done. There appeared to him to be an incline at the top of the elvan, but they had not seen sufficient to form an opinion as to how wide it was. Had the lode continued at the same value as it was 12 or 18 months ago, instead of three being a loss they would now have a profit. They would be driving but few levels in Tincroft proper. By the aid of boring machinery they could put about 7 fms. a month in each level. This meant that as much work was now being done with boring machinery in one month as could be done in six or seven by hand labour. This caused a little extra cost, but taken altogether it compared favourably with the cost of hand labour. But for boring machinery had did not believe the deep hard gr

pared favourably with the cost of hand labour. But for boring machinery ha did not believe the deep hard ground mines of the district could be worked.

Mona Consols.—The report of the directors, prepared for the meeting on Friday next, states that the accounts show an unexpended balance of 128l. 17s. 2d. Capt. Wm. Bawden has been appointed manager in place of Capt. Mitchell, of the Parys Mines, who is, however, retained to report once a month for 1l. 1s. Capt. Bawden reports that on his arrival at the mine he found six men sinking a winze by day work. At first opportunity he set it to them at 12l. per fathom. After working one week they declined to go on at the price, and the work was stopped for three weeks. It is now being worked by six men and three boys (price not mentioned) who commenced on Nov. 1, and made a discovery the following day. In the west end of the winze there was a lode of about 1½ fix wide, mixed with rich ore, richer than he had seen it before. In the east end of the winze the lode was not quite so big, but nearly as orey; there was on the footwall a part of the lode about 18 in., that had not up to that time been orey, but was then spotted with rich ore, making a lode together about 2 or 2½6 ft. wide. He is well pleased with its present appearance. Capt. T. Mitchel (Nov. 8) reports that a great deal of work has been done during the past welve months, and things are now getting into good working order for fairly prosecuting the mine. Several tons of lodestuff (asving work for copper) have been broken out, and the prospects for opening up a good mine are highly favourable,

FOREIGN MINES.

CANADIAN COPPER AND SULPHUR.—Francis Bennetts, Oct. 27: The 50 east Hartford No. 5 shaft is looking very well. Vein full size; drift about 5 ft.; ores 6 to 7 per cent.; wet assay for copper. This being the most easterly drift rom No. 5 shaft, part of the mine gives room for increased confidence in the resources of the mine. There appears to be a little improvement also in the 40, east of No. 5 shaft on the Hartford Mine, as well as in a rise in the back of this 10 fm, level; both of these points are in whole ground, untried from surface. There is not much change in the 10 east or west of No. 3 shaft, or in the 35, west of No. 1 shaft. At St. Francis Mine there is no change of importance to report. The smelting works are running well.

CHILE GULD.—Telegram from manager: Return for September, 1946 ozs.; 5 days, 30 stamps.

there is not much change in the 10 east or west of No. 3 shaft, or in the 35, wet of No. 1 shaft. At St. Francis Mine there is no change of importance to report. The smelting works are running well.

25 days, 30 stamps.

26 days, 30 stamps.

27 COLORADO UNTED—Mr. Ward, Oct. 21: Work in the mine went on as usual during the week. The 12th drift looks good, and shows about 3 in. of ore. The 13th drift, east of Silver Ore shaft, is driven 137 ft., and the present drift show about 2 in. of ore. The silver Ore shaft, is driven 137 ft., and the present drift show about 2 in. of ore. The silver in the 13th drift is not on the 12th drift looks good, and shows about 3 in. of ore. The silver of the 13th drift is not on the 12th drift show about 2 in. of ore. The silver in the 13th drift is not on the 12th drift show about 2 in. of ore. The silver in the 13th in the bottom of the 12th level show about 2 in. of ore. The silver in the 13th level and 13th level the 13th level and 13th level and 13th level and 13th level was a level through. There is some mineral on the wall. Mill: ran well during the week. Sent away 69 sack of sine headings and 154 sacks second-class cobbled ore. Heavy fall of snow on the 17th and 18th inst.

25 DON PEDRO.—Mine Captain, Oct. 5: Explorations: The branches when available present but little alteration to note; we are trying to timber some of the ground results of the silver in the 13th level was 15th level new furnaces, of which I am completing three. We expect to roast from 15 to 16 tons in 24 hours with these four furnaces, and I think I can extend south front to get what more furnaces may be necessary to roast 20 tons in 24 hours. In summer we can calcine outside at the mine; in winter it is impossible. Winter is already on us, but I am in hopes that the late unusually early snowstorm may give us two months of fair weather. It is hard to say, however, in weather like this when I shall be ready to run on 10 tons, but I am pushing things as hard as I can. No stoppage of any duration will be required am pushing things as hard as I can. No stoppage of any duration will be required are no maps in existence. So soon as I can find time I will prepare to send you a working plan of the mine. What I have now (being all we require for present work) would not convey to you the information you require. We have still a quantity of ore in sight above the tunnel level, but as to its extent it is impossible to say until we pick into it. With regard to the clay and quarts in the west drift allow me to refer you to Mr. Jones' report of July 17.—Before that can be utilised we must have stamping or crushing appliances and concentrators at or near the mine, as, although it will pay to haul the concentrations (worth from 85 to 85 in silver, with gold and copper in small quantities. That, however, is a reserve, and a valuable one, which will come into play some day. The alterations I am making on the mill now are the furnaces, of which I send you plan, and agitators, tube and vats sufficient to treat 10 tons of ore a day. You may confidently rely on my not spending one cent unnecessarily. So soon as I have this mill running on 10 tons I propose, without stopping, to increase its capacity to 20 tons.

KOHINOGE AND DONALDSON CONSOLIDATED. — Superintendent,

apacity to 20 tons.

KOHINOOR AND DONALDSON CONSOLIDATED.— Superintendent, bet. 21: No. 1 level in 268% it., yielding 1 ton of milling ore per fathom. No. 1 vinze down 16 ft., yielding 1% ton of milling ore per fathom. Started to communicate with No. 2 rise; lode 2% ft. wide No. 2 level in 37% ft.; lode in. wide, yielding 3% ton of smelting ore of good quality. No. 3 level in 145% ft., yielding 1% ton of smelting ore of good quality. No. 3 level in 146% ft., yielding 1% ton of smelting and 3 tons of concentrating ore per fathom; lod

concent south fr south fr yield 5 is a lode 1: firm the mine, a Monday The derreceived dated 0 mines a NORN the eng (as we effrom prode look we are dithis less to have under ce them.

PEST on No. 1 tinues is lode of and yiel level, go and give tinues in 6 south The lodd ised rock branche north is large ming 6 too rossing or or sain go to the log consing of the lodd ised rock the lodd ised rock to the lodd ised rock to the lodd ised rock to the log could be a large ming 6 too rossing or or sain go to the log consing the large ming 6 too consing the large mines and the large mines are considered to consider the large mines and the large mines are considered to consider the large mines and the large mines are considered to consider the large mines are considered to considered the large mines are considered to consider the large mines are considered to considered th

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PLAC

Nov. 11, 1882.]

2½ ft. wide, of good appearance, 8 in. of smelting ore, and the remainder concentrating mineral; the grade of ore generally is better. No. 3 winze down conventing mineral; the grade of ore generally is better. No. 3 winze down fathom; lode 3½ ft., yielding 1½ ton of smelting and 3 tons of concentrating ore per fathom; lode 6 ft. to the west. The mineral is forming satisfactorily on the thrown the lode 6 ft. to the west. The mineral is forming satisfactorily on the honor with the concentrating ore per fathom; lode 2½ ft. wide, looking weil. 100 ft. level concentrating ore per fathom; lode 2½ ft. wide, looking weil. 100 ft. level concentrating ore per fathom; lode 2½ ft. wide, looking weil. 100 ft. level control which is spect; carries a little more copper. The Kohimoor shaft is down 156 ft., with spect; carries a little more copper. The Kohimoor shaft is down 156 ft., with spect; carries a little more copper. The Kohimoor shaft is down 156 ft., with spect; carries a little more copper. The Kohimoor shaft is down 156 ft., with spect; carries a little more copper. The Kohimoor shaft is down 156 ft., with spect; carries a little more copper. The Kohimoor shaft is down 156 ft., with spect; carries a little more copper. The Kohimoor shaft is down the Champion of mine, and state that work was begun by the company on this property on Moaday, the 16th ult., and that it is now proceeding regularly at the mine. The deed and United States patent for the Champion Mine Invo also been received by the directors this week. A further letter from the resident director, which is the state of the Champion and Kohimoor mines are going on steadily.

NoRWAY COPPER.—A. F. Secombe, Adelaide Mine, Oct. 30: The lode in the engine-shaft is worth 1st. per fathom, and as it appears to be more settled it as we expect to find it) as the shaft is sunk, we have every reason to believe form present appearance that it will further improve. I have never seen the lode look so promising as it does now. In the 10 ft. level, east of en

The 20 metre level south, on the eastern part of the lode, is unproductive. The lode in the adit south, at Seysonbre, presents a more regular appearance, producing stones of barytes; but unproductive of lead ore.—St. Denis: The sinking of the engine-shaft below the 30 metre level goes on regularly. The lode in the 30 metre level, north of shaft, produces or sextuff for a width of 80 centimetres. The lode in the level south is split into two branches, both of which are unproductive. The winze below the adit level yields a little fair quality orestuff. The tribute pitches at Mioche produce but a small quantity of orestuff of low quality. La Brousse: The sinking of Alice's shaft goes on regularly; the lode is 1 metre wide, composed of quartz containing good stones of ore. The 180 metre level north yields ½ ton of ore per current metre. The same level south is unproductive. The 140 metre level south has improved in value, and is now yielding ½ ton of ore per current metre. The 120 metre level, north of 81 metre, which is unproductive.—Pranal: The 110 metre level, north of 85. George's shaft, yields ½ ton of ore per current metre. The 70 metre level, both north and south, is unproductive. In the 30 south we have stripped down a piece of ground against the western branch, on which some tribute pitches are being worked at the 50 metre level, and hope to open out some productive ground. The trial level on the lode at La Combe presents an unpromising appearance, the lode being split link two unproductive branches.—Surface: Our out-door work has been carried on with difficulty, because of almost constant rains; but our dressing operations have gone on regularly, and our samplings have amounted to 223 tons.

RIOHMOND CONSOLIDATED.—Telegram received from mine at Eureka Nevada:—Week's run (one furnace), \$23,000 from 487 tons of ore; refinery \$15,000.

to greater the producting at the sense one. In the 10 it. level, east of engine-shaft, set of driving south 6 intersect the lode east of the cross-cost. The lode in the Key and the production of the cost of the cross-cost. The lode in the Key and the production of the production of

the lode in the level above there are about 2 metres more to drive to intersect it. Stope No. 2, in the back, the lode is 15 to 17 ft. wide, and worth 17% cwts. of lead and 1 ton of blende ores to the cubic fathom; this stope is not set. Stope No. 3, in the back, is set to eight men, for the sum of 20 fr. per metre cube; the lode is 18 ft. wide, and producing 1½ ton of lead and 2 tons of blende ores per cubic fathom. In No. 3 level stope No. 2, in the bottom, the lode is 18 ft. wide, and yielding 1½ ton of lead and 1½ ton of blende per cubic fathom; this stope is not set. The lode in No. 3 level cast has greatly fallen off in value, being worth now 15 cwts, lead and 15 cwts. blende ores per cubic fathom; width of lode 12 ft. This is not set. The stopes No. 1 and 2, in the back, are each worth 1 ton of lead and 1 ton of blende per cubic fathom. During the past month there have been raised 1127 tons of crude ores; 1337 tons sent to the dressing-floors, and there are now at the mine 440 tons. The bad weather has prevented the working of the cable several days during the month, but I am peased to say it is now fine.

STANDARD DIAMOND (Kimberley Mine)—F. B. Salomons, Oct. 12: We have started pulling reef again, and as soon as it is a little clear the second engine will again start on the blue ground. The washing is going on satisfactorily, and since the rain the ground is in splendid order. We have started pulling reef again, and as soon as it is a little clear the second engine will again start on the blue ground is in splendid order. We have shipped 2301½ carats diamonds. Week's report as follows:—Number

EXTRACTION OF GASES FROM MOLTEN METALS.

EXTRACTION OF GASES FROM MOLTEN METALS.

The invention of Mr. Russel Aitken, of Great George-street, Westminster, relates to the extraction of gases from molten iron, steel, glass slags and other molten metals and materials, and has for its object to effect the said extraction or separation in a much more effective and complete manner than has hitherto been practicable. According to his said invention he causes the metal, glass, slags, or other molten metal to enter and pass through a vacuum or a partial vacuum in a thin stream or spray. This may be effected in an apparatus thus constructed.—A ladle is closed in air tight, and is provided with a connection to a pump or exhauster by which a vacuum or partial vacuum may be created therein. Communicating with the interior of this ladle chamber or vessel is another receptacle, the passage between the two being closed by a valve or plug capable of being raised or lowered, by a lever or attachment extending to a position outside so as to be readily operated. The valve or plug being closed, and a vacuum or partial vacuum being formed in the ladle chamber or vessel the molten material is poured into the receiver from which it is gradually allowed to pass into the vacuum ladle chamber or vessel by easing the valve or plug the molten metal falling into the vacuum in a thin stream, and thus not being subject to pressure on any side will allow of the escape from the molton material of the gases which were occluded or enclosed therein.

The molten material preferably strikes against a projection or disperser to facilitate the spraying and dispersion of the metal, and facilitate the freeing of the gases. By this passing through and spraying or dispersion of the metal in the vacuum or partial vacuum the gases are readily extra ted or separated and drawn off, which drawing off may be effected by the pump or exhauster, which maintains the vacuum or partial vacuum. The vessel in which the vacuum or partial v

form at bottom, so that the metal as it accumulates passes off by the turned up or syphon-like end. In a modification of the apparatus suited for treating molten substances of a comparatively low specific gravity, the receiver containing the molten substance is placed at the side of or beneath the vessel in which the vacuum or partial vacuum is created, and the said receiver and vessel are connected by a pipe or passage up, and over which the molten material passes to the vacuum vessel being drawn thereinto by the vacuum or partial vacuum therein.

vacuum therein.

CATHEDRAL CONSOLS.—A shareholder who has been to the mine this week writes:—"They have some beautiful yellow ore coming into the shaft at Cathedral. I don't think there is any doubt of our leaving a tiple leaf in continuous to be leaving as the leaf in the leaving as the leaving as the leaf in the leaving as the leaving

SHEPHERDS MINES (LIMITED).

IMPORTANT DISCOVERY.

LODE CUT AT THE 26 FATHOM LEVEL WORTH FROM TWO TO FOUR TONS PER FATHOM.

THE LODE IS

OVER A MILE IN LENGTH, NEARLY ALL IN VIRGIN GROUND. From partially working only two out of seven Lodes running through the Mine PROFITS OF NEARLY

A QUARTER OF A MILLION STERLING HAVE BEEN PAID.

SHARES HAVE ADVANCED FROM

10s. to 22s. 6d.,

ARE STILL RISING, AND SHOULD BE BOUGHT.

WE STRONGLY RECOMMEND for an Immediate Large Rise, the Shares of-EAST WHEAL ROSE.

TRESAVEAN.

MOUNT'S BAY.

OLD SHEPHERDS.

WHEAL CASTLE.

SPECIAL.—We are prepared to give for the "CALL" of any of these shares for delivery, at any fixed time from two to twelve months, considerably higher prices than those now ruling.

We are Buyers for Cash or the account at the best market prices of the day. Full descriptions in November Circular, now ready, and post free.

FOR FULL PARTICULARS, APPLY TO

CO., ABBOTT, PAGE,

STOCK AND SHARE BROKERS.

42, POULTRY, LONDON, E.C.

Mining Correspondence.

BRITISH MINES.

BEHIJOH MANNO.

BEDFORD UNITED.—H. Trezise, Nov. 7: There is no change on the north lode since last report. McCallan's Shate Bridge Lode: The engine-shaft is sunk 6 fms. below the 42, in which the lode is 6 ft. wide, of a promising character; composed of peach, capel. mundlo, and black and yellow ore. The lode in the 42 west is improved in appearance, carrying a nice rib of yellow ore of excellent quality. The same level east is looking more promising for an improvement. The lode in the 30 cast is very promising. The winze sinking below the 30 is not so good for ore, but promising for further improvement. The stopes are of much the same value. The 20 cast is without change. The work of the mine is regressing satisfactorily.

The lode in the 30 cast is very promising. The winze sinking below the 30 is not so good for ore, but promising for further improvement. The stopes are of much the same value. The 20 cast is without change. The work of the mine is progressing satisfactorily.

BLUE HILLS.—S. Bennetts, R. Harris, Nov. 3: The Pink lode, in the winze below the 30, near the cast end, is just as last reported—worth 201, to 251, per fathom. The Baldhu lode, in the Blue Burrow shaft, is producing low quality tinstuff, but not of much value. The 40 cast end is in a kind of disordered ground, and the lode is not of much value. The 30 cast end is worth 62, per fan.

BRADA (Isle of Man).—R. Rowe, Nov. 1: The different points of the mine continue to open out very well. The 40 end and the 5 end (Prior's lode) are both steadily opening out good copper ground for stopes in a lode from 5 to 6ft. wide. The Bulwark cross-out at the 54 (Pryor's) is still in paying lead ground; we have driven 4 ft. through it, and it continues going ahead; the width of lode already driven through is 30 ft. I am unable to say to-night what day we can start the machinery, the weather is principally delaying us.

BWLOH UNITED.—W. Northey, Nov. 8: Saturday last being our monthly setting-day the following bargains were re-set:—The 100 west to drive, by four men, at 64, 10s, per fathom. For the past few days the lode has greatly improved in size and character, now being fully 2 ft. wide, composed of killas, quartz, blende, and carrying a small branch of silver-lead ore of a most promising feature for further improvement. The cross-cut north at the 50, towards the new lode, to be driven by four men, at 7t. 10s. per fathom; the lode is from 1½ to 2 ft. wide, composed of light blue killas, quartz, blende, and occasionally patches of lead ore, and letting out water freely. The stopes in the back of the 50—No. 1, to two men, at 2t. 15s. per fathom; the lode is from 1½ to 2 ft. wide, composed of light blue killas, quartz, blende, and occasionally patches of lead ore, and letti

Shaft: The great increases of water from the continuous floods have necessitated our detaching the rods and allowing the water to run out the adit for the time being.

CAINARVONSHIRE GREAT CONSOLS.—W. H. Borlase, November 9: Caunter Lode: In cross-citting the lode at the 24 fathom level, west of Endean's cross-cut, we have cut two branches of lead on the hanging and one of the footwall, which will produce 1 ton of ore per fathom. Judging from the present bearing of the branches on the hanging side by continuing the end on the course of the lode, we shall have them in the next 4 ft. The cross-cut in the footwall side is letting out a deal of water. The winze sinking below the 14 fm. level east is for the length of winze 8 ft., producing 1 ton of ore per fathom. The lode in the 14 fm. level east has not been taken down since last report. No. 1 stope in the bottom of adit, east of Big Pass, is producing 1 ton of ore per fathom. No. 2 stope is suspended for the present. A stope west of No. 3 winze in the bottom of adit east of Big Pass, is producing 1 ton of ore per fathom. Secured the run, and No. 2 winze, and resumed stopes. The stope east of winze is producing 30 cwts. of lead per fathom. Stope west of winze is producing 30 cwts. of lead per fathom. Bope west of winze is profuncting of cwts. of lead per fathom. Bope west of winze is poor in the bottom, and the men are new preparing to take a fresh stope from the bottom of adit, which will soon be in a good lode. There is no change to notice in the winze sinking below the 14 fm. level west of Endean's shaft.—East and West Lode: Diagonal Shaft: We are not making the progress in sinking as heretofore in consequence of the caunter lode forming a junction with the east and west lode is in the bottom of shaft, and the spar accompanying the lode is trouble-some for sinking in. The producing point in the lode is the water of shaft 20 cwts. of lead per fathom. The weather is and has been very severo, retarding out-door work very much.

CWM DWYFOR (Brynarian Mine).—J. Dav

rough the month,
DEVON FRIENDSHIP.—F. R. W. Daw, Wm. Gill, Nov. 9: We are pleased DEVON FRIEDBILLY.—F. R. W. Daw, win, Gill, Nov. 9: We are pieused to inform lyou that our underground operations are progressing satisfactority, and the mines looking well.—Burface operations: The greater part of the winding machine is on the mine; we have commenced to erect it, and we shall use all energy to get it in working order. We have nearly finished taking out the foundations for the soil-acting juggers, and shall commence to erect the shed

next week.

DEVON GREAT CONSOLS.—Isaac Richards, Nov. 9: There is no important
alteration at any of the points of operation throughout the mine since last advice. The six-monthly report is being prepared, and will be forwarded to-

DRAKEWALLS UNITED.—M. Bawden, Nov. 8: There is nothing new to report in any of the underground loperations. Saturday next being our setting-day a full report will be sent next week. EAST BLUE HILLS.—S. Bennetts, W. K. Mitchell, Nov. 8: The lode in the adit east end is 1½ ft. wide, but is not quite so tinny as it was a week since. Notwithstanding, it is a most promising looking lode, much more so than in the 49 nearly over this ground, The stopes, both in this level and in the level over, are worth on an average about 6ℓ, per lathom. The new surface work on the stamps floors has been very nuch hindered during the past week, owing to the frequent heavy rains, and consequently the progress made has not been so great as we desire.

of fead ore per fathom. The stope in the 97, south of said winze, is worth 12 cwts, per fathom. We are squaring down the No. 2 winze, 85 to 97 south, and hope shortly to have some fair stoping ground here. There will be 20 tons of blende ready for sampling shortly.

EAST UNX.—W. Hooper, Nov. 9: Lode in engine-shaft sinking below the 82 37 to 18 wide, intermixed with mundic and copper ore; a promising-looking lode. Lode in the 82 west on Davia's lode 2 ft. wile, composed of quartz and peach, intermixed with mundic and copper ore. No. 2 stope in the back of the 82 on Davia's lode is worth 2 tons of copper ore per fathom. No. 2 and 3 stopes in the back of the 82 on Davia's lode are each worth 1½ tons of copper ore per fathom. The lode in the 40 west, on the Great Flat lode, is producing low quality tinstuff. The lode in the 10 cast of whim shaft, on Whitford's lode, is 3 ft. wide, producing tin throughout.

The lode in the 10 cast of whim share, on whitevers lode, is sit, whee, producing the throughout.

GAWTON.—George Rowe, George Rowe, jun., Nov. 4: The lode in the 117 cast is showing a very kindly appearance, producing 20 tons of mundic and copper ore per fathorn. The lode in the stope, cast of winze, in the back of the 117, is worth 15 tons of mundic and copper ore per fathorn. The lode in the No. 2 stope, in the back of the same level, lift is worth 12 tons of copper ore per fathorn. The lode in the 105 mi. level end, on the south part, is producing good stones of mundic and ore. The lode in the rise going up above the 15 is worth 12 tons of mundic and res. The lode in the rise going up above the 15 is worth 12 tons of mundic per fathorn. The lode in Nos. 1 and 2 stopes in the back of the 70, cast of cross-cut, is yielding on an average 12 tons of mundic per fathorn. All the other points are without change.

GLASGOW CARADON CONSOLS.—Wm. Taylor, Wm. J. Taylor, Nov. 7:
South Lode: The 114 east lode still unsettled, but ground getting more favourable, and we hope the lode will soon improve. The 114 west producing stones of ore, but not much to value. Stopes in the back of this level worth 8t. to 104. per fathom. There is a small horse in the lode, but this we expect will soon wear out and lode improve. The 114 east improving as it leaves the cross-course, now worth 5t, per fathom. The 102 west, loie still split and poor. We have suspended the winze in the bottom of this level which is down nearly as deep as the 114; good ground and lode throughout the whole winzing, and when the 114 west is driven and communicated we shall have cut out a good piece of ore ground for stoping; this we are pushing on as fast as possible. We have three stopes in the back of this level (the 102), worth 3t., 3t., and 12t. per fathom respectively. The 90 west is worth 6t. per fathom; this end appears to be just taking the run of ore in the stopes above this level, which are now valued at 5t. and 15t. per fm. There is not much change to notice in the tribute pitches, which are turning out about their usual quantities of ore.

GREAT LAXEY.—W. H. Rowe, Nov. 7: Until the driving is a short distance from the Weish shaft we have put the shaftmen temporarily to the starting of the 259 south, working night and day; but these will be replaced by a separate staff of men as soon as practicable, and the shaftmen will resume sinking. It is satisfactory to have come up with ore in the 259 end north, where the part of lode carried in driving is worth 14t, per fathom. The 247 end north is worth 11t. per fathom, and when holed to the 255 winze it will be necessary to commence sinking another for ventilation and opening the ground in advance of the 259 end. A stope in the roof of the 247 end is worth 25t, and a joint driving and stope below the 235, 35t, per fathom. There is no change in the 235 end north. The winze sinking in the 220 beyond the 235 end is wo

of the 200 Is worth 301, per fathom. The one in the sole of the 10 north is worken insurity to poor ground, but the other below the 65 will soon be in grounding through the silice, has split into two (livisions, which will probably unite again in a short distance; meantime both branches contained little ore, but not yet of much value. There is nothing new to report of the other levels in this again in a short distance; meantime both branches contained little ore, but not yet of much value. There is nothing new to report of the other levels in this course of lead in it. The engine is worsing very well, and consuming about some of lead in it. The engine is worsing very well, and consuming about of the control of the co over, are worth on an average about \$6!, per fathom. The new surface work on the stamps floors has been average about \$6!, per fathom. The new surface work on the stamps floors has been average about \$6!, per fathom, and is more than the character and the per fathom, and is more and is improving in character. The part of the lode carrying in the 120, driving west of one of the lode of ground at the 150 east on caunter, since last reported in the character of the lode or ground at the 150 east on caunter, since last reported ing, and during the past week we have the work of the stant, and is in the 130 cross-cut south the ground has considerably improved for driving, and during the past week we have the bounded of the lode of the lode carrying in the 120, driving west of a most favorable character, and would at one of the lode of the l

three rock-drills, air-tubes, &c., have been forwarded, the greater part of which is on the mine.

MOUNTS BAY CONSOLS.—W. Argall, J. James, J. Rowe, and W. H. Argall, Nov. 4.? Trebarvah: We have reset the draining of the 50 cross-cut south to six men at 10l, per fathom. The ground is of an elvany character, with branches of spar containing spots of copper and mundic; and within the last week we have had more water. These together augur well for cutting the lode good ahead of us, and which may be cut any day. Our tribute picknes have improved in the tack of the 62. We have reset at 9s. 6d. in 1l.; the lode is worth fully 3l. per fathom, and the bottom of the samelevel has been reset at 10s. in 1l.; lode worth 8l. per fathom. We have about 15 tons of good quality copper ore dressed, and continuing on the dressing as fast as possible.—Bydney Cover. The shaftmen have completed the fixing of the bearers, and the cisteri will be in its place to-day, and in the coming week we hope to drop the pitwork, &c., below the 20 and again commence to clear the engine-shaft. We are subting a winse from the 20 to 30 east of shaft on south lode, so as to vantilate to the level

GLASGOW CARADON CONSOLS.—Wm. Taylor, Wm. J. Taylor, Nov. 7:
South Lode: The 114 east lode still unsettled, but ground getting more favourable, and we hope the lode will soon improve. The 114 west producing stones
of ore, but not much to value. Stopes in the back of this level worth 51, to 101.
per fathom respectively.—Herey the lode, but this we expect will soon wear
out and lode improve. The 114 east improving as it leaves the cross-course, now
worth 52, per fathom. The 102 west, lose still split and poor. We have suspended
the winze in the bottom of this level which is down nearly as deep as the 114;
good ground and lode throughout the whole winzing, and when the 114 west stoping; this we are pushing on as fast as possible. We have three stopes in
the back of this level (the 102), worth 52, per fathom. The 104
have y's morth 10de, is worth 61, per fathom; this and appears to be just taking
the run of ore in the stopes above this level, which are now valued at 51, and 154
her from the Welsh shall we have put the shallow in the run of ore in the stopes above this level, which are now valued at 51, and 154
her from the Welsh shall we have put the shallow in the per firm. There is not much change to notice in the tribute pitches, which are
turning out about their usual quantities of ore.

GREAT LAXEY.—W. H. Rowe, Nov. 7; Until the driving is a short distance
from the Welsh shall we have put the shallow there will be necessary to commence
shaking another for ventilation and opening the ground in advance of the 255 south, working slight and day; when the shallow is considered the same shallow in the per fathom, and when holed to the 255 south, working slight and day; when the shallow is considered to the same shallow in the per fathom, and when holed to the 255 end anoth, where the part of
lode carried in driving is worth 144, per fathom. The 259 end north, where the part of
lode carried in driving is worth 144, per fathom. The 259 end north where the part of
lode carried in driving is worth 144, per fathom. The

nate of copper in the nexts or assures, two expect to cut the load in the coming nonth.

MOUNT CARBIS.—G. Johns, Nov. 9: There is no particular change to notice ince the report to the general meeting. The lode in the 50, both east and west, continues to open out exceedingly well. Other points as last reported.

MYNYDD GORDDU.—Thomas Kemp, Nov. 8: The south part of the lode carried by the 46 end, west of cross-cut, still has, for the width (5 ft.) a very fine appearance, and is at times producing fine stones of silver-lead ore; from the oresent indications I expect very shortly to have the pleasure of reporting that discovery of great importance has been made here. This bargain is worked by six men, at 160s, per fathom. The lode in the 46 end east is showing a much cetter appearance than for some time past, in ground favourable for opening. The lode in the stone stope over No. 2 cross-cut on the caunter is worth from 121. to 151, per fathom.

fathom. CARADON.—N. Richards, Nov. 7: We have haddinber brought on the nine, and have also five men clearing and securing adit, &c. I see we shall have put in footway, and clear and secure the adit shaft in order to ventilate this yes, which is choked in a little way from mouth of same, but how long the un is I cannot as yet say; you shall, however, be kept advised as to all these patters.

level, which is choked in a little way from mouth of same, but how long the run is I cannot as yet say; you shall, however, be kept advised as to all these matters.

NEW KITTY.—W. Vivian, Nov. 9: The Engine-shaft: We shall complete sinking to the 50 in about a week from this time, where I purpose immediately to drive a cross-cut south to intersect West Kitty rich Flat lode. We are making good progress in clearing up Thomas's shaft, where I purpose to sink on the course of the lode.

NEW TERRAS.—T. R. Pryor, Nov. 9: Ground continues favourable for sinking in the engine-shaft; we have already sunk about 10 fms., and timbered the same all the way. We occasionally meet with some rich branches of tin in the shaft. The ground is of beautiful character for the production of tin. We intend to sink 10 fms. deeper, and then put out a cross-cut to the lode, which will bring us underneath the rich course of tin gone down in the winze. We are pushing on with the adit, which is laying open an extensive run of tin ground. A few fathoms to the west of the winze we have discovered a lode running at acute angles with the great lode, and have opened on it in the quarry, from which we have broken good tinstuff. The stamps are on the milne.

NEW WEST CARADON.—N. Richards, Nov. 8: The 35 cross-cut, south of Hallett's shaft, is now being driven through a very pretty channel of ground, and is being urged on with all possible dispatch. The lode on which we are driving, east of cross-cut sea this level, is about 14 in. wide, producing stoms of rich copper ore. As soon as the present pare of mens' stent is out we shall increase the number here, as the cross-cut is now advanced far enough to admit of our present working as quickly as possible. All other points are much the same as when reported on last week.

NORTH BLUE HILLS.—S. Bennetts, Nov. 8: A sort of caunter lode, having a south-west underlie, has just been cut through in the adit west end, which has out off the lode on which the adit level is driven, and thus far is not found on t

hallow level cross-cut.

NOETH HERODSFOOT.—T. Trelease, Nov. 9: We have taken down the lode a the 117 end, which is 1 ft. 6 in, wide, and is worth 7 cwts, of ore per fathom, there is still a quantity of water issuing from the end. The lode in the winze not quite so productive as it was; it is now worth 5 cwts. per fathom. The ope in the winze continues to yield 7 cwts, of ore per fathom. We have no her change to notice.

NORTH PENSTRUTHAL.—Stephen Davey, Wm. Polkinghorne, Nov. 9: We ave no change of special note since last advised. The various points of opera-

other change to notice.

NORTH PENSTRUTHAL.—Stephen Davey, Wm. Polkinghorne, Nov. 9: We have no change of special note since last advised. The various points of operation are being pushed on with vigour.

OKEL TOR.—H. Bulford, J. Rodda, Nov. 9: Good progress is being made in cutting down the new eastern shaft below the 50, and we hope to reach the 65 by the end of the present month. The lode in the 50 east is still of a promising character, being composed of capel, peach, quartz, and a little copper ore and mundic. The part of the lode carried in the winze sinking below the 50 is turning out 13 tons of arsenical ore per fathom. There is another part of the lode standing to the north, which will be stripped out after the winze is holed. We have three stopes working in the back of the 50 east, on the intermediate lode, producing on the average 3 tons of arsenical ore per fathom. The stopes in the bottom of the 65, in the western part of the mine, is yielding 6 tons of arsenical ore per fathom. The stopes in the back of the 35 are producing 12 tons of arsenical ore per fathom. The stopes in the back of the 35 are producing 12 tons of arsenical ore per fathom. The stopes in the back of the 35 are producing 12 tons of arsenical ore per fathom. The stopes in the back of the 35 are producing 12 tons of arsenical ore per fathom. The stopes in the back of the 35 are producing 12 tons of arsenical ore per fathom. S: We have passed through the great cross course, which is of a most beautiful character, having in its composition large quantities of decomposed quartz and fluor spar permeated with copper ore. We think those indications very favourable for finding something good when we out the Bonny lode. We have permanently secured the level where it passes through the cross-course, by means of brick arching. The ground on western side of cross-course is very favourable for driving; a good progress is being made, having already driven over two fathoms.

PARYS COPPER CORPORATION.—T. Mitchell, Nov. 9: The 65, east of

manently secured the level where it passes through the cross-course, by mean of brick arching. The ground on western side of cross-course is very favourable for driving; a good progress is being made, having already driven over two fathoms.

PARYS COPPER CORPORATION.—T. Mitchell, Nov. 9: The 65, east of cross-course, continues to look muchithe same as when hast reported. The lode at the surface trial has a little improved; but we have not been able to do much here this week on account of having so much water caused by the heavy rains.

PELYN WOOD.—T. H. Bennett, Nov. 9: We continue to drive west on the lode, and as we proceed it is more defined and improves. I hope in a few days to be enabled to report the size of a well defined and productive lode. In the costean pits we have intersected and traced No. 3 lode for upwards of 60 fms. and we continue to sink other pits on its bearing westwards towards the granite. The lode in each pit is principally capel, from 2½ to 3 ft. wide, a portion of which is interspersed with copper ore.

PENHALIS.—S. Bennetts, J. Goyne, Nov. 3: The lode in the 50 west end is about 2 ft. wide, but not quite so productive as last reported; at present is worth 5½, per fathom. The 70 cast end is poor. The 60 cast end, on the south section of the lode, is worth 6½ per fathom, and the west end on this section of the lode, is worth 6½ per fathom, and the west end on this section of the lode, is worth 6½ per fathom, and the west end on this section of the lode, is worth 6½ per fathom. The winse below the 30 is worth 8½ per fathom; lode worth 3½ per fathom, and the west from a point east of this shall, by six men, at 13½, per fathom; lode worth 10½, per fathom. No. 13 were provided to drive west, by two men, at 6½, per fathom; worth 10½ per fathom. The winse below the 30 is worth 8½ per fathom; worth 10½ per fathom. The 10½ per fathom; worth 10½ per fathom. The 10½ per fathom; worth 10½ per fathom. The 10½ per fathom. No. 150 per fathom; worth 10½ per fathom. No. 150 per fathom; worth 10½ per fa

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their former terms.

TANKERVILLE GREAT CONSOLS.—Arthur Waters and Son, Nov. 8: Tankerville: The 232, east on main lode, is worth ½ ton of lead one per fathom, and the vein to-day shows every sign of improvement. The end is not driven far enough to catch the dip of the ore ground and cavity seen in 220; hence we are watching the advancement of the forebreast with a good deal of interest. The 232 west is getting through the twitch; the lode is getting wider and producing some rich orestuff, which no doubt is the commencement of a better state of things.—North Lode: The 232, west of Watson's shaft, is worth 20 eves, per fm., and looks like improving. The 232 east is yielding stones of ore, but we shall soon have a more productive lode here, the main deposit of ore seen in the 220 being further east than the present end. The winze in this lode, west of shaft in the 220, shlows a lode 4 ft. wide, worth 30 cwts. per fathom. A stope in this level east is worth 30 cwts. per fathom. The winze in 206 west is worth 30 cwts. per fathom. The singe in 206 west is worth 30 cwts. per fathom. The singe in 206 west is worth 30 cwts. per fathom. The point will be holed to the stopes in the 220 some time this week. The stope in the back of the 266 west is worth 30 cwts. per fathom. Pitch in 20, west on north lode, is worth 5 cwts. per fathom. Pitch in 120, west on north lode, is worth 5 cwts. per fathom. Pitch in 140 west is worth 12 cwts. per fathom. Pitch in 171 cwts. per fathom. Pitch in 172 cwts. per fathom. Pitch in 174 west is worth 10 cwts. per fathom. Pitch in 175 cwts. per fathom. Pennericy: The 120, east of cross-out on Warm Water lode, is opening out paying ground, and we think the end is now entering the run of productive ground seen along the

our surface work, dressing, &c., as fast as possible; both steam and water stamps are working well.

WHEAL JEWELL.—Joseph Tregoning, Nov. 8: The lode in 60 cast, which continues to produce 1½ ton per fathom of copper ore in easy ground, is now 12 fms, long without a break, and never looked more promising than at present. The lode in the 50 cast occasionally produces good bunches of lead ore, with gossan and rich patches of black oxide of capper, indicating great yield of mineral at a deeper level. To improve the ventiliation, and lay open ground for stoping, a winze is being sunk below the 50 about 5 fms, in advance of the present 60 cnd. The lode here produces about 1½ ton per fathom of good quality copper ore; water quick. In the 40 cast, where of late the lode has been disturbed by elvans, we have cross-cut northward, and although having met with more lode it is still unsatisfactory; a further cross-cutting seems inevitable. Our

RAILWAY AND GENERAL MARKETS.—Referring to the course of business done to-day during official hours (11 to 3) Mr. Perdinand R. Kirk, Birchin-lane, writes:—Opening: Business is restricted, and the tendency dull, except in American shares, which, without much doing, are put up higher, in response to the improvement in Now York. Brush Lights are ½ lower, and Hudson Bay ½. Not so much has been done in mining shares during the week; quotations remains steady, however, and in the majority of instances may be described as firm. Organos wanted at 2½ to 3, a d East Caradons at 2, 2½. Sortinge Copper, 6s. to 7s.; Devon Friendship, 7s. to 9s.; Prince of Wales, 9s. to 11s.; Tankerville, 6s. to 7s.; Devon Friendship, 7s. to 9s.; Prince of Wales, 9s. to 11s.; Tankerville, 6s. to 7s.; West Caradon, 25s. to 39s.; Wheal Crebor, 3½ to 3½; Chile Gold, ½ to 1; Yorke Peninsula, pref., 1½ to 1½; Indian Gleurock, ½ to 1; Richmond, 8½ to 3½; Timed Mexican, 2½ to 3; Hudson's Bay, 35½ to 36; X Native Guano, 4½ to 5½. The Subsidiary Brush Light Company's shares are becoming very difficult to sell, Nanty-Glo and Blains shares can be sold at 50.——Closing: Trunks are lower, apparently from the delay in announcing the dividends. At the Wheal Crebor meeting this afternoon a dividend 7s. 6d. per share was declared. A long discussion followed as to whether shareholders should in future be confined to any particular day for imapecting their property.

We regret to announce the death, after a few days illness, at the age of 48 years, of Mr. John Furneaux Pearse, well known to many readers of the Mining Journal, in connection with the firm of John Taylor and Sens, in whose service he had been for upwards of

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THE METAL TRADE

OR COPPER, FIN, LEAD, &c., apply to-MESSES. PELLY, BOYLE, AND CO., SWORN METAL BROKERS,

ALLHALLOWS CHAMBERS, LOMBARD STREET, LONDON. (ESTABLISHED 1849.)

JOHN EAST, G . NEWCASTLE-ON-TYNE.

BROKER FOR THE SALE OF PIG-LEAD, LEAD ORES, COPPER ORE, COBALT, MANGANESE, CARBONATE OF ESTABLISHED 1866.

HENRY NUTT AND CO.,

No. 119, BRISTOL ROAD, BIRMINGHAM PURCHASERS OF

LEAD ASHES, LEAD SLAGS, SULPHATE OF LEAD, TIN ASHES, TERNE ASHES, AND ALL REFUSE CON-TAINING TIN AND LEAD.

HENRY WIGGIN AND CO. (LATE EVANS AND ASKIN),

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METAL MERCHANTS AND BROKERS. SOLE AGENTS FOR THE CELEBRATED SWEDISH STEEL, BRANDED "SANDVIK."

e, GREAT CHARLES STREET, BIRMINGHAM.

OLD METALS of EVERY DESCRIPTION PURCHASED for CASH,

The Mining Market: Brices of Metals, Ores, &c.

IRON. & s. d. & s. d. !	TIN. s. d. £ s.
	English, ingot, f.o.b102 0 0-103 0 0
ig, GMB, f.o.b., Clyde 2 10 0- Beotch, all No. 1 2 10 9- 2 11 0	bays103 0 0-104 0 0
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. Swedish, London 9 15 0-10 0 0	COPPER,
tails, Welsh, at works 5 15 0- 6 0 0	Tough cake and ingot. 72 0 0- 74 0 0
reets, Staff., in London 9 0 0	Best selected 75 0 0- 76 0 0
Plates, ship, in London . 9 5 0- 9 10 0	Sheets and sheathing. 80 0 0- 81 0
Ioops, Staff., 8 0 0	Flat Bottoms 83 0 0- 84 0
Naii rods, Staff., in Lon. 7 10 0	Wallaroo 74 0 0- 75 10
BTEEL.	Burra, or P.C.C 74 0 0
English, spring 12 0 0-18 0 0	Other brands nom. 71 0 0- 73 0
cast30 0 0-45 0 0	Chili bars, g.o.b 69 0 0
Swedish, keg15 0 0	QUICKSILVER.
fag. ham15 10 0	Flasks, 75 lbs., war 5 17 6
Rails at works 5 5 0- 5 10 0	PHOSPHOR BRONZE.
, Light, at works 6 10 0- 6 15 0	Alloys I., II., III., and IV £125 0
LEAD,	, VI. and VII 140 0
English, pig, common 14 0 0-14 2 6	XI., Spl. bearing metal 117 0
, L.B14 5 0-14 7 6	BRASS.
W.B14 12 6-14 15 0	Wire 8 d
sheet and bar14 15 0	Tubes1014
,, pipe15 0 0	Sheets 81/2
,, red16 5 0-	Yel, met. sheath. & sheets 61/4d61/4
" white20 10 0-22 10 0	Tin-PLATES.* per box.
patent shot16 10 0	Charconi, 1st quality 1 10-1 2
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SPELTER. 16 5 0-16 15 0	at Liverpool
	Disck Taggers 450 of 1
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To ne-plates 2s. per box below tin-plates of similar brands.

REMARKS. - During the past week the metal market has been rather irregular, at least so far as the leading metals are concerned. Opening dull, and with a depressed tone, reduced prices were at times REMARKS.—During the past week the metal market has been rather irregular, at least so far as the leading metals are concerned. Openiug dull, and with a depressed tone, reduced prices were at times accepted, the amount of business doing being insufficient to support previous quotations, while the markets were further weakened by some "bear" sales, combined also with only a limited amount of regular business being carried through. At times, however, on the other hand, a recovery has been visible in the tone, and buying rather than selling has been the most more prominent feature. Since then the markets have been so very fluctuating the true state of the trade—that is to say, whether present circumstances warrant the maintenance of prices or not—can soarcely be gathered from the movements recorded during the past week. They have been influenced to some slight extent by the various monetary reports that have been circulated, and as the connect part railed or failen. So much sensitiveness in the markets may be taken as an evidence of the existence of a vast amount of speculative interest, and consequently for a time we may see quotations governed almost entirely by operators, and the various changes not based upon the legitimate business of the markets. It is, therefore, quite impossible to give any sure prediction of the immediate future of the trade. Much will depend upon the state of the money market, and much will depend upon advices from abroad, both monetary and otherwise, but more will depend upon advices from abroad, both monetary and otherwise, but more will depend upon the movements of speculators. Whatever course they adopt others usually follow in their train, and consequently they have the power to create an animate or depressed feeling.

For a time, therefore, up and down movements may repeatedly be expected without any apparent cause, but just merely as it suits the whims and fancies of operators, and the markets may be looked for, yet it will be interesting for a while to look at the real position of

ress has been done in Chili bars at fluctuating prices. With regard to general business, the trade must be reported dull, there being a marked scarcity of orders for shipment. Prices for manufactured to general business, the trade must be reported duit, there being a marked searcity of orders for shipment. Prices for manufactured are in consequence somewhat easy, the prevailing quotations being quite nominal. Notwithstanding the limited purchases that have recently been made for India, and the unfavorable comparisons the exports show with those for the corresponding time of last year, yet at present there seems to be but few, if any, symptoms of any revival; and although it is thought that these limited exports must soon create an increased shipping demand, yet at present there are no signs of a 'y extraordinary demand. Smelters are already said to have purchased the raw material somewhat freely, and in proof of this there are the recent excellent deliveries, consequently many believe that this will have a detrimental effect upon the immediate future demand, but whether this will be so or not the latest statistics have shown a continued improvement in the actual state of the market. These returns have on more than one occasion been the means of atimulating the demand for zpeculation, and this week as prompts have fallen due, and the market at times has shown symptoms of wavering, some holders have considered it more politic to rid themselves of their stocks, while buyers generally have been reluctant to make purchases unless reduced prices were taken. However, in some quarters there is a strong opinion prevailing that prices will not further materially recede, but may quickly recover what they have lost, and as instance of this we need only refer to the state of the market on Tuesday last, and the opening of Wednesday, when symptoms of recovery were visible, buying of Chili bars became very active, and holders less clapes it to make sale. At the public Ticketing, held at 8wanses on the 7th ites, 1130 tons of an average produce of 11½ per cent. were sold, at an aveage it as 5040, per unit.

.3s. 5½d. per unit. IRON.—This market continues to assume a steady appearance, but Lusiness is not very active. The strike difficulties which have for so long tended to unsettle this market have now in most cases been

amicably arranged, the general advance in wages being 10 per cent., but there are "still difficulties between employers and employed where mas ers as yet have not seen their way clear to join in this advance. Taking the iron t ade as a whole there is fairly regular employment, the chief amount of activity being reported in the South Yorkshire districts. But it is to be regretted that, notwithstanding the fairly good state of the trade, looking at it in the above point of view, yet the shipping demand for manufactured does not improve, but remains very dull, shippers refusing to pay present quotations. In fact it seems likely, in order to stimulate this branch of the trade, it will be necessary to make concessions in prices. Some manufacturers seem already to have realised this fact, and while Stafforshire descriptions remain strong sellers of the inferior classes of iron have shown their willingness to make some slight concessions in their prices. With regard to Swedish iron the demand keeps very languid, and sales can only be made at reduced rates. Advices from India are not altogether very satisfactory, and from some parts indents come at lower limits, while in a few cases the markets there are said to be over-supplied. Turning from the manufactured to the raw material, the feeling of depression which was so pronounced in the warrant market last week was not altogether warranted by the real state of the trade, being merely caused by some holders selling heavily. Sales not being pressed so freely this week prices have recovered, as will be seen from the following returns from Glasgow, while a very fair number of transactions have been carried through.

In makers' iron there is not much doing, and quotations are a shade lower. On Monday last the Glasgow warrant market opened at 49s, 4½d., and a good business was done up to 49s, 8d., while on Tuesday a still friner feeling prevailed, and various transactions were recorded betwixt 49s, 8½d, and 50s, 1½d., there being sellers at the close at the highest point. On

61. 15s., and bars are quoted at 61. 5s., and angles at 61.; puddled bars ruling at 32s. 4d. per ton.

There is no particular change in the condition of the Wolverhampton market; prices, taken on the whole, remain fairly steady, and a moderate business is being transacted, both in the manufactured and the raw material. There is, however, scarcely so much briskness in the demand as a short time back. At Birmingham in some isolated cases reduced prices have been accepted, the less flourishing state of trade in general producing an adverse effect upon the market. There is a fair enquiry for medium bars and angles, while the demand for sheets is fully sustained. In pigs there is not much doing, what sales have taken place being principally for small barcels. Advices from 8heffield show that market to be fairly steady, and a fair business has been done in the various classes of iron, Derbyshire and Staffordshire brands being in good request; and, while bar iron is a trifle cheaper, pigs are firmly upheld. The reports from Wales are fairly satisfactory, and a tolerably good business has been done in rails. There is a good deal of briskness at some of the works, and fair shipments have been made to America. The advices from New York of the 2nd inst. report scarcely so much business doing, and prices are in some cases slightly lower. Hemaities, Cleveland pigs, and native sorts of iron are all reported without variation, while No. 1 Gartsherrie is quoted at \$25 to \$26.50; Glengarnock at \$25; Coltness at \$27; and Eglington as \$2350. Ser.:p is 2s. lower and old rails 4s. higher, being quoted at \$27.50 and \$31 respectively.

Tin.—Numerous changes have to be reported from day to day in this market, and the turnover has continued extremely heavy, some times at falling prices, and at others when they have a strong up-

this market, and the turnover has continued extremely heavy, some times at falling prices, and at others when they have a strong upward course. Opening dull and with a good deal of disposition to press sales, the market fell away considerably on Monday, but has since recovered, although in effecting this improvement some very sharp movements have accompanied it, and the market has been very disorganised and irregular, so much so as to render it impossible to place any faith in the stability of the mari et. There is much to argue in favour both of an upward and downward inture course of prices. For instance, with the increased supplies which are coming forward, the total visible stock was seen by the last returns to have been augmented, and this feature, taken in connection with the disposition shows by some dealers to depress the market, gives the idea that prices may recede; but then, on the other hand, deliveries are reported to be sustained upon a fairly large scale, and since prices have already, in a very short space of time, been greatly reduced, there is a chance of the rebound shortly being effected, and the tendency of the market to-day is decidedly in favour of this view. A public saie is just announced to take place at Amsterdam on the 30th inst., when 22,800 slabs Banca will be offered.

LEAD has slightly improved, Spanish being quoted at 134, 12s. 6d. to 134, 15s., and English at 14t. to 14t. 2s. 6d. per ton.

SPELTER is easier, ordinaries being quoted at 16t. 5s. to 16t. 10s., and specials at 16t. 10s. to 16t. 15s.

STEEL remaining low in value, with a moderate business doing.

STEEL remaining low in value, with a moderate business doing.

TIN-PLATES.—A fair business is doing at steady prices.

QUICKSILVER.—The Board of Trade Returns for October are:—

Imports during October Bottles 2,111 600 980 980 981 1881. 1882. 1881. 1882. 1881. 1882. 1.11 600 980 980 981 981 982 982 982 3.74 937 2,132 3.74 337 31780 and these figures indicate that the consumption is maintained on a satisfactory scale; but this avails little in view of the heavy stock and second-hand pressure to sell. The importers hold for 51.17s.6d.; but second-hand parcels offer at 51.17s., and even cheaper. The price at San Francisco is 37c.

The MINING SHARE MARKET, sympathising with metals, has been weaker since our last; there has been less doing in speculative shares, and the quotations of tin stocks generally are mostly nominal. Those dealt in have included South Caradon, East Caradon, West Caradon, New Caradon, New West Caradon, Langford, Prince of Wales, Wheal Crebor, West Crebor, Wheal Kitty, Russell United, West Kitty, West Peevor, Tankerville, Gunnislake (Clitters), and a few others.

few others.

The shares have been flat and much weaker, and the standards for ore have been again reduced 2l. per ton, thus making the fall 10l. per ton. Blue Hills are quoted 1 to 1\frac{1}{4}; Carn Brea, 9\frac{1}{2} to 10; Dolcoath, 71 to 73; East Lovell, 1 to 1\frac{1}{4}; East Pool, 50 to 5\frac{1}{2}\frac{1}{4}; Killifreth, 4\frac{3}{4} to 5; Kit Hill, \frac{3}{6} to \frac{3}{6}; Drakewalls, \frac{3}{6} to \frac{3}{6}; New Kitty, 2\frac{1}{2} to 3; South Condurrow, 9\frac{1}{4} to 9\frac{3}{6}; South Crofty, 12 to 13; South Frances, 9 to 9\frac{1}{2}; Tincroft, 8 to 8\frac{1}{2}; West Basset, 7\frac{1}{2} to 8; West Frances, 11 to 12.

Wheal Peever 3\frac{1}{4} to 4: at the meeting the accounts for your

West Frances, 1 to 12.

Wheal Peevor, 3½ to 4; at the meeting the accounts for jour months showed a loss of 1875\(\ell\). 8s. 1d., and a debit balance of 2390\(\ell\), against which a call of 10s. per share only (1500\(\ell\).) was made. There is due to merchants 2647\(\ell\). 8s. 10d.; lords' dues, 330\(\ell\). 17s. 2d.; bills, 54\(\ell\). 16s.; Cornish bank, 155\(\ell\). 9s. 1d.; making liabilities 4591\(\ell\). 16s.; Ornish bank, 155\(\ell\). 9s. 1d.; making liabilities 4591\(\ell\). 16s.; Ornish bank, 155\(\ell\). 9s. 1d.; making liabilities 4591\(\ell\). 16s.; Ornish bank, 155\(\ell\). 9s. 1d.; making liabilities 4591\(\ell\). 16s., 9d. The agents report the necessity for a call; but as there are several points to come off, they hope to increase returns and improve their position. Wheal Agar, 17 to 17\(\frac{1}{2}\); Wheal Basset, 9 to 9\(\frac{1}{2}\); Wheal Grenville, 9 to 9\(\frac{1}{2}\); Wheal Jane, \(\frac{1}{2}\) to 1; Wheal Kitty (8t. Agnes), 1\(\frac{1}{2}\) to 2; Wheal Uny, 4\(\frac{3}{2}\) to 5; East Blue Hills, 9s. to 11s.; North Blue Hills, 9s. to 4s. Cook's Kitchen, 36 to 38; at the meeting the accounts showed a loss of 1496\(\ell\). At North Busy a call of 4s. per share was made. West Peevor, 9\(\frac{1}{2}\) to 10; at the meeting the accounts showed a loss on four months' working of 1393\(\ell\). The tin sales realised 2200\(\ell\). At New Peevor the costs for four months amounted to 63\(\ell\). West Kitty, 13\(\frac{1}{2}\) to 13\(\frac{2}{3}\); at the meeting on Oct. 28 a dividend of 7s. 6d. per share is expected. Trevaunance, 2\(\frac{1}{2}\) to 2\(\frac{2}{3}\); Mounts Bay, \(\frac{3}{3}\) to 1; Tresavean, 1 to 1\(\frac{1}{2}\); Goodevere, 1 to 1\(\frac{1}{2}\); Goodevere, 1 to 1\(\frac{1}{2}\);

on Oct. 28 a dividend of 7s. 6d, per share is expected. Trevaunance, 2½ to 2¾; Mounts Bay, ¾ to 1; Tresavean, 1 to 1½; Goodevere, 1 to 1½; Polrose, ½ to ¾; West Phonix, 10s. to 15s.; New Trumpet, 1 to 1½. Copper has slightly given way, and there has not been quite so much doing in shares; but, on the whole, the speculative market has been well sustained. Bedford United, 1½ to 2½; Carnarvon Copper, ¾ to ½; Devon Great Consols, 5½ to 6; Devon Great United, ¾ to ½. East Caradon have further advanced, and leave off 2 to 2½; we do not hear of any change in the mine, but the name is foremost just now. South Caradon, 35 to 40; West Caradon, 25s to 30s.; New West Caradon, 10s. to 12s. 6d.; the New Caradon, 5s. to 7s. 6d. West Caradon, 10s. to 12s. 6d.; the New Caradon, 5s. to 7s. 6d. Wheal Crebor, 3 to 3½; at the meeting the accounts showed a profit on four months' working of 1681l, 0s. 3d., and a balance of assets over liabilities of 3016l. 3s. 8d. A dividend of 2s. 6d. per share (1500l.) was declared. The copper ores sold realised 4051l. 11s. 1d.; mundic, 119l. 11s.; and the committee reported that since the last meeting they had paid off every debt on the mine, and the only liability upon it was the dues on ores not yet received. After paying a dividend of 2s. 6d. per share, and putting by 50l. per month (200l.) towards the 13th month that comes in every year, there will remain ore bills in hand sufficient to meet three months' costs to be incurred

before the next receipts for ore.
Gunnislake (Clitters), 3\frac{1}{2} to 4; Hingston Downs, 13s. 9d. to 16s. 3d. Langfords have been very largely dealt in at 10s to 12s. 6d.; Marke

Nov. 11, 1882.

Valley, 17s. 6d. to 22s. 6d.; Mellanear, 4½ to 5; Parys Copper, Corporation, 8s. to 10s. South Devon United 15s., to 17s. 6d.; West Crebor weaker also, owing to the meeting being called, and they leave off 9s. to 11s.; the lode is still worth 10l. per fathom, West Seton, 21 to 23; West Tolgus, 16 to 18; Mona, 3½ to 4; Mona Consols, 1 to 1½; West Devon, 10s. to 12s. 6d.; New Cook's Kitchen, 6½ to 7; at the meeting the accoutts showed a loss of 111l., and a debit against the shareholders of 1374l. The copper ores sold realised 1029l. Devon Friendship, 7s. 6d. to 8s. 6d.; the agents report the mine to be looking well. Sortridge Consols, 6s. 6d. to 7s. 6d.; without any change in the mine; but on Friday a sudden demand sprung up, and they leave off 12s. to 14s.

LEAD shares continue flat, with mere nominal quotations. Vans are quoted 5½ to 6½; Great Laxey, 17 to 18; Roman Gravels, 9½ to 9½; Goddards, 1 to 1½; Eadhills, 3½ to 3½; Pennant, 4½ to 5; Penyr-Orsedd, 1 to 1½; Sinclair, 1 to 1½; West Lisburn, ½ to 1; Goginan, 1 to 1½; Frongoch, 1½ to 2; this mine has sampled 60 tons of lead for sale next week. Tankerville Great Consols, 5s. 6d. to 6s. 6d., from the manager's report the mines are looking well throughout. The 80 at Pennerley is worth 4 tons of lead ore per fathom, and the 113 at Potter's Pit 2½ to 3 tons. The lead and blendes sold this week have realised about 1400/., against 1250/. last month. Grogwinion, 1½ to 1½; Consedd and Merilyn, 2 to 2½; South Darren, 1½ to 1½; Cape Copper, 54 to 55; Cape of Good Hope Diamond, ½ to 1½; Cape Copper, 54 to 55; Cape of Good Hope Diamond, ½ to 1½; Cape Copper, 54 to 55; Cape of Good Hope Diamond, ½ to 54; Thousand Central. ½ to ½; Oxtanovilla, 5 to ½; Forntino and Bolivia, 2½ to 2½; General Mining, 5½ to 5½; Thousand Central. ½ to ½; New Quebrada, 4½ to 5; Nouveau Monde, ½ to ½; Fontino and Bolivia, 2½ to 2½; Goneral Mining, 5½ to 5½; Fontino and Bolivia, 2½ to 2½; Goneral Mining, 5½ to 5½; Fontino and Bolivia, 2½ to 1½; Forganos Gold, 2½ to 3½; Fontino, 1

The Market for Mine Shares on the Stock Exchange has again been very dull, and the tendency of prices is without exception downward, although from the fact that there is very little business doing at all, the quotations are little more than nominal, and holders have to submit to heavy sacrifices if they be compelled to force sales. There has been a further fall of 2*l*, in the tin standards in Cornwall, and at the copper ore ticketing at Swansea on Tuesday there was also a decline, but lead is somewhat better.

Our usual telegram from Cornwall this evening states:—The unsettled state of the tin market, and the firther reduction of 21, in the tin standards, has caused the Cornish share market to continue the tin standards, has caused the Cornish share market to continue dull. There is, however, a feeling that the depression is only temporary and that prices will improve, it being anticipated that a better damand for tin will soon be felt. At North Busy meeting a loss of 1120% was reported, 4s, per share being called up. Five meetings were held yesterday. West Peevor loss reported 1373%; 10s. call made. Wheal Basset loss reported 3456%; 12s. call made. Cook's Kitchen loss reported 1496%; New Cook's Kitchen, loss 111%. New Wheal Peevor reported 1496%; New Cook's Kitchen, loss 111%. New Wheal Peevor reported about 70% in hand. Carn Breas 9½ to 9½; Dolcoath, 72 to 72½; East Pool, 50% to 51½; Killifreth, 4½ to 4½; Tincroft, 8½ to 9; West Basset, 7½ to 7½; West Peevor, 10 to 10½; West Frances, 11½ to 12; West Kitty, 13½ to 13½; West Seton, 20 to 22; Agar, 17 to 17½; Wheal Basset, 9½ to 10½; South Tolcarne, 4½ to

In Electric Light Companies shares the transactions have been less numerous than for many weeks past, and prices have with one or two exceptions tended downward. For brilliancy and steadiness none of the systems used in London for street illumination appear to maintain their original standard, and the improvements in gas illu-mination bid fair to drive them out of the field altogether, still where large spaces have to be illuminated electricity has no competitor. The Maxim-Weston Electric Company has just concluded an advantageous contract for the sale of their patent rights for the whole of the Australian colonies, New Zealand, and Tasmania, and the first installation will leave this country by next mail steamer. This is the second valuable concession sold by the Maxim-Weston Company within the past few weeks, as the Lancashire Maxim-Weston Electric Company which has just been floated has nurshead its sale rates. Company, which has just been floated, has purchased its sole patent rights for that county, Cheshire, and North Wales. It is understood that further arrangements of a similar nature are in progress. It is announced that Mr. H. W. Merchant has been appointed managing director of the Maxim-Weston parent company.

In Diamond Mine shares there has been scarcely anything doing, the slight activity noticed a few weeks since having entirely dis-

managing director of the Maxim-Weston parent company.

In Diamond Mine shares there has been scarcely anything doing, the slight activity noticed a few weeks since having entirely disappeared. A statement has been published which is scarcely intelligible. It is said that "the diamond fields of South Africa produce large quantities of yellow diamonds. This colour, of course, lessens the value considerably, and a white diamond is worth five to six times as much as a yellow one of the same weight and quality. It was recently reported that a method of removing the colour had been discovered. Such is the case, but the important addition has to be made that the yellow re-appears after a slight washing, as some French merchants lately found out to their cost, after purchase at a high price of some perfectly white diamonds. The method is a simple application of the law of complementary colours. The yellow diamond is put in some violet solution. A slight coating of violet suffices to render diamonds of the most pronounced yellow tint perfectly white." Such a discovery would indicate ingenuity, no doubt, but as a matter of fact, the defect of even the best Jagors fontein stones is that they approach opalescence more nearly than a fine Brazilian diamond, and such a washing as that referred to would beyond question give the diamond such an appearance as could not deceive the practised eye.

Carn Camborne are quoted 1½ to 1½; an improvement is reported in the 95 fm. level.

Devon Great Consols, 6 to 6½; it is reported that operations are

the 15 fm. level.

Devon Great Consols, 6 to 6½; it is reported that operations are being pushed on in the various levels driving east and west on the new south lode with improving prospects, and that a wide lode is being opened out at Watson's part of mine containing rich quality

being opened out at Watson's part of mine containing rich quality copper ore. Devon Great United, \(^3\) to \(^6\); the levels driving west are being pushed on with a hope of making discoveries in this direction.

East Wheal Rose have advanced \(^1\), to 1 3-16th, 1 5-16th, owing, it is said, to the scarcity of stock; sellers having had to pay 25s. on buying-in day, several parcels having been bought in upon the Stock Exchange by the official broker of the house.

Kit Hill Great Consols, \(^3\) to \(^3\); a good lode is being opened out in the bottom of the winze of the 62, west of the north shaft, worth

127. per fathom. Mounts Bay, 13-16ths to 15-16ths, continue a firm market. Many attempts have been made to break this market, but on each attempt stock has been bought up by holders. A back of 3d. per share has been paid for the loan of them to meet account.

old Shepherds have advanced $\frac{1}{2}$ per cent., 1 to $1\frac{1}{4}$, on the report of the discovery of a valuable lode at the 26 fm. level. South Devon United, $\frac{3}{4}$ to 1; it is reported that Martin's shaft has been sunk 50 fms. and Pickston's shaft is down 15 fms. under the 140 fms. level, and the cross-cutting to the lode is now being pushed.

140 ms. level, and the cross-cutting to the lode is now being pushed on with all force, so that in a short time this important point in the intersection of the lode will be reached.

Tresavean, 1½ to 1½; it is reported that these shares continue a favourite investment, and being now held in fewer kands any further buying would cause a rapid advance.

West Godolphin, 1½ to 1½; in the 50 a rich stone weighing over 100 lbs. of nearly clean tin was taken out last week, and from other favourable indications it is thought that a good deposit is near at hand. The winze at the bottom of the 70 west, on Bellingham's

hand. The winze at the bottom of the 70 west, on Bellingham's lode, is still going down in a good course of ore, worth 12L per fathom. This point, it is continued, will soon be communicated with the 80 fm. level, thereby open up a fine length of ore ground. The lode at the bottom of the 10 sat on caunter continues to be worth 22L per fathom, which bids fair for an early improvement at the 80. The whim shaft is holed to the 20 fm. level on Hope lode. Tribute ground to a considerable extent is now available for working. East Caradou, 1½ to 2½; important changes for the better are reported. The cross-cut in the 130 fm. level, going south, will, it is thought, in all probability soon strike something that may give a new life to the undertaking. During the past week a branch or lode has been intersected in the said cross-cut about 20 in. wide, I ft. of which is rich yellow copper ore and 8 in. of granite and capel intermixed, the ground beyond this branch being still favourable granite, the agents are of opinion that a large strong lode exists ahead; this is in virgin ground to surface running the whole length o the sett.

o the sett.
Sortridge, 7s. 6d, to 8s. 9d.; a telegram from Capt. Wm. Skewis
this morning says:—Deep adit men have now good air and making
progress; lode in 30 stope worth 10%. per fathom; stamps working
well.

this morning says:—Deep adit men have now good air and making progress; lode in 30 stope worth 10l. per fathom; stamps working well.

Henrick, ½ to ½ prem.; a telegram has been received from Mr. John Herrick, who was deputed to measure the mine; he says—a Estimate 40,000 to 45,000 tons ore on reserve; difficult to measure closely. Prospective value of the mine great in all headings, improving rapidly in quantity and quality. Letters have been received a from the manager, Mr. Harker. The condition of the machinery (Oct. 1) is the same as last advised, with the exception of a new ore and shaft house recently terected at the Central shaft. He is working the old or lower shaft, and taking out a great deal of low grade ore that he can sell at a profit under the present shaft with the exception of a new ore and shaft house recently terected at the Central shaft. He is working the old or lower shaft, and taking out a great deal of low grade ore that he can sell at a profit under the present shaft was a present and average assay of the present shipments are not as high as Mr. Henty's report states. At the time of Mr. Henty's visit prices were not so good as now, and only certain grades of ore could be shipped. At the Harker shaft we are stoping between 2th, 9th, 10th, and 11th levels. Between 10th and 11th levels the ore is 9 ft. thick. He has completed the new shaft and engine-house over shaft No. 3; this is the shaft (previously designated as Central shaft) now being deepened to intersect the main incline. Fresent working force 65 men all told. He adds (Oct. 10) that he has no healtation in saying that the ore body developed slines Mr. Henty's inspection is more than double in amount to what he saw last March. The vein is continuous, and seems to be less irregular as the hill is penetrated telegram from the mines states that the week's run was \$20,000 from 487 tons of ore with one furnace During the week the refinery produced doré bars to the value of \$15,000. The superintendant's weekly report to the vince the super

ore sales were 400.

Kohinoor and Donaldson, 1½ to 1½; it is announced that the company has now taken possession of the Champion Mine, and commenced working it, and that the deed and United States patent have this week been received by the directors.

this week been received by the directors.

Indian Gold Mine shares have been much neglected through sympathy with the general market, and prices remain about the same. At the meeting of the Indian Gold Mines Company in Glasgow this (Friday) afternoon, the directors reported that more funds would be required. They thought matters were now improving, and Mr. Severn says he has cut a heavy reef on tunnel-road 400 ft. from surface. In trials of quartz 7 tons yielded 250 grs., about 1½ dwts. per ton; and 1½ ton yielded 58 grs., or about 1½ dwts. per ton also. He considers the stone, to, near susface to give better results. A case of auriferous pyrites has been received from India, but the result was disappointing. A call of 2t. 10s. per share on the new shares will be made. The absence of gold in payable quantities in the Indian reefs appears to be more apparent from each additional report received. The reports of Brough Smyth were evidently fallacious, though whether from his incompetency, or from any less excusable cause. whether from his incompetency, or from any less excusable cause, is not yet proved; and, unfortunately, the modes of raising the capital and managing the concerns have been such that, even had there been payable gold in the reefs, it is unlikely that any of it would have reached the shareholders. The purchase-money charged was fabulous, and the management has been almost criminally extravagant in one case for example, not in the Devale rote only were travagant in one case, for example, not in the Devala, not only were the directors' fees fixed at the very handsome sum of 1500l., but a London manager was appointed at another 1500l. per annum exclusive of receiving 773l. for brokerage and 250l. for use of office and secretary. If any profit is to be hoped for there must be a total reorganisation of almost every Anglo-Indian company at present on the English market.

the English market.

The Lead Market has been somewhat firmer during the week, and the general opinion is that an advance in prices will shortly take place. Tankerville Great Consols, 7s. to 8s.; considerable enquiry is said to have been made for these shares, owing to the further important discoveries of lead ores made this week. The valuations of the different points in operation are worth, together, for lead and blende, about 400£ to 450ℓ, per fathom.

Romans Gravels (Shropshire), 9½ to 10 ex div.: the rich lode is, it is reported, being opened out in the various levels driving south, and especially in the 85 south, where there is a wide lode, worth 100ℓ, to 120ℓ, per fathom, and likely to improve further. This end is fast approaching the course of lead seen in the 65 south, and the levels below the 85 are also being pushed on rapidly to get under these large bodies of ore, when the reserve of ore ground will be increased. It is said that the last month's sale of 300 tons of lead ore would leave over 1000ℓ, profit for the month. leave over 1000l. profit for the month.

Leadhills, 3½ to 3½; the severals points of operations are being pushed forward vigorously, and the mines generally continue to look

well.

At Swansea Ticketing, on Tuesday, 1130 tons of ore, of 11½ average produce, and containing 128 tons 1 cwt. of fine copper, were sold for 8615L. 18s. 6d., being 7L. 12s. 6d. per ton of ore, 13s. 5½d. per unit, or 67L. 5s. 8d. per ton of fine copper in the ore, and an average standard of 91L. 8s. 10d. for 9 per cent. produce. Subjoined are the particulars of the two last sales:—

Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Oct. 17. 1491 ... £ 94 15 2 10½... £ 7 8 7 14s. 1½d. ... £ 70 14 7 8 Nov. 7. 1130 ... 91 8 10 11½ 7 12 6 13 5½ ... £ 70 14 7 8 Compared with the last sale the decline has been in the standard 3½. 6s. 5d., and in the price per ton of ore 7s. 6d. The Garonne ore gave 9½ per cent. produce, and sold at 14s. 3d. per unit; Spanish, produce 6½, per unit 11s. 10d.; Betts Cove, produce 5½, per unit 13s. 1½d.; New Quebrada, produce 10½, per unit 13s. 7½d.; Cambrian, produce 18, per unit 13s. 7½d.; Virneberg, produce 13½, per unit 13s. 6½d.; Merces, produce 23½, per unit 13s. 6½d.; Merces, produce 23½, per unit 13s. 8d. There will be no sale on Nov. 21. sale on Nov. 21.

Orders have been made for winding-up of the London Medical and Chemical Company, General Horticultural Company, Lincolnshire Iron Smelt-ing Company, International Supply Company, South-Eastern Bonded Ware-house and Wharf Company, and Barbados Gas Company.

Petitions for winding-up the French Zoedone Company and Whitenaven Hematite Iron and Steel Company are to be heard before Mr. Justice Chitty on the 11th, and Yorkshire Brush Electric Light Company before Vice Chancellor Bacon on the 11th, and Silkstone and Haigh Moor Company or the 13th inc.

Justice Chitty has fixed Nov. 13 for the appointment of official Mr. Justice Chitty has fixed Nov. 15 for the appointment of olicial liquidators of the Surrey and Hampshire Canal Corporation and Georgia Land, Lumber, and Colonisation Company, and Mr. Justice Kay has fixed the 15th inst. for the appointment of an official liquidator of the General Share Trust Company. A petition for winding-up the Indian Kingston and Sandhurst Gold Mining Company is to be heard before Mr. Justice Chicty on the 11th inst

Gold Mining Company is to be heard before Mr. Justice Chitky on the 11th inst
COPPER AND TIN.—Messes. Rickard and Budd (Nov. 10) write: We are
passing through rather a dull season just now, and prices of copper have receded
about 3t. from the highest point reached in October. This is remarkable, as in
November the highest price of the year is often touched. The Board of Trade
returns show a failing off of nearly 7 per cent. In the exports, but probably a
great deal of copper has gone away in the shape of machinery, steam engines,
&c., which up to date show a very considerable increase over last year. There
must be a large absorption of copper in the home centres—caused to some extent,
doubtless, by the good harvest—as notwithstanding an increase of imports of
nearly 7 per cent., and the decrease in exports previously referred to, public
stocks, spot and afloat, were lower on Oct. 31 than at the close of any other
month, with one exception, for some years past. Tin has been influenced in a
downward direction to some extent by an increase of supplies, but to a much
greater degree by market operations, which have no relation to the value of the
article. We anticipate a rebound as the result of much smaller shipments from
the Straits during the present month.

GOLD AND SILVER,—Messex, PIXLEY and ABELL:—GOLD: We have but

the Straits during the present month.

GOLD AND SILVER.—Messrs, PixLey and Abell:—GOLD: We have but little to report in gold this week. There have been no arrivals of consequence, and no export demand. The Bank has received 61,000 in bars and coin since our last, and an exceptional withdrawal of 47,900 in bar gold took place to-day. 3450 in gold coin was shipped to Madras per P. and O. steamer Ravenna.—Silver: The arrivals this week are 24,000 in per Handel, from the River Plate, and 43,000 in per Cordillera, from Chill. The consignment by the first-named vessel was sold on the 6th inst. at 51% d. per oz. standard, our last week's quotation. The bars, per Cordillera, have not yet been dealt with. Owing to the reduction in the minimum rate for the India Council bills notified yesterday, the market has become unsettled, and in the total absence of business no reliable quotation can be given. The P. and O. steamer Ravenna took yesterday 29,000 is Bombay and 26,000 it. to Calcutta.—Mexican Dollars: There have been no arrivals since the date of our hast circular. The market is inactive, pending advice of the French steamer at St. Nazaire due in a few days.

TREVITHICK MEMORIAL.—The movement inaugurated by Mr. TREVITHICK MEMORIAL.—The movement inaugurated by Mr. Hyde Clarke (see Mining Journal, Oct. 21), with a view to secure a suitable memorial to Richard Trevithick—the fact that fifty years will in a few months have elapsed since his death affording an opportunity for doing so—is already receiving recognition, for it is proposed to hold a preliminary meeting of those gentlemen who are interested in the above object, at the Society of Arts rooms, on Wednesday next, Nov. 15, at 5 o'clock p.m., in order that some definite steps may be taken to promote its success.

BRATSBERG .- Advices have been received stating that the Mary Owens was to sail this week with another cargo of ore, making two cargoes now on the way. We understand that there is plenty of ore ready for another shipment.

HORNACHOS SILVER-LEAD .- Advices from the mines state that the fitter arrived at Afortunada on Oct. 31, and that he had commenced arranging the different parts of the steam air-compressor so as to have them at hand for erection, as the foundation was to have been finished on Nov. 7. The foundation for the compressor at the Descuidada Mine is in a forward state.

THE ALMADA AND TIRITO CONSOLIDATED SILVER MINING COMPANY (Limited).—At the meeting of shareholders yesterday the report and accounts were adopted, and it was stated that the latest advices from the mine continue to be of the most satisfactory character. A full report will appear in next week' Journal.

CWM DWYFOR COPPER (Carnarvonshire), AND BRYNARIAN LEAD (Cardiganshire). —We understand that a considerable number of shares have been already applied for in the new company being formed to acquire and work these mines.

OLD SHEPHERDS.—A splendid lode of silver-lead has just been cut at the 26 fm. level, which, according to advices, is worth from 2 to 4 tons per fathom—a wonderfully good discovery for such a shallow depth. It is considered to be now pretty sure that this justly celebrated old mine is likely to repeat its former brilliant history, and that very quickly.

MOUNTS BAY CONSOLS.—The report in to-day's Journal confirms MOUNTS BAY CONSOLS.—The report in to-day's Journal confirms the remarks which appeared last week stating that the tribute pitches at Trebarvah were improving. It also states the volume of water at the cross-cut is increasing, which indicates the lode is near, and if it be cut as rich as may fairly be anticipated from the very high value of its near neighbours, it will very materially enhance the value of this property, and have a favourable effect on the price of shares. A parcel of copper is being got ready for market, and dressing pushed forward as fast as possible.

TANKERVILLE—It is stated that in addition to directors when

TANKERVILLE .-- It is stated that in addition to directors who have agreed to take up their large proportion of the New Ten per Cent. Preference shares, a considerable number of shareholders have already sent in their applications, the last day for this purpose being

DEVON FRIENDSHIP.—The agents report that the mine is looking very well, and that the greater part of the new winding machine is delivered, and will be erected as fast as possible. The self-acting jiggers are also being proceeded with.

TRESAVEAN MINE .- Everything here is activity; the stamping and TRESAVEAN MINE.—Everything here is activity; the stamping and dressing-floors for preparation of tin for the market, always a slow and tedious process, is now working well, and the tin going steadily to the calciner or purning-honse. After passing the final process an average sample produced 13½ in 20 of best quality metal, worth about 60l. per ton. The lodes are producing great quantities of kinstuff and are large, having a considerable run through the sett; the supply seems almost inexhaustible. More stamping power is being put to work, and, from all indications, large sales may very soon be expected, and the mine should not be long before it is on the Dividend List.

EAST WHEAL ROSE.—The rapid progress being made in this mine is the subject of general remark, and it is said that men are fast taking up tribute pitches at prices which leave good profits to the shareholders. The lodes recently discovered are still maintaining their richness, and, judging from various reports, there appears to be no doubt the lode at the 20 when opened up—say, in about a fortnight—is likely to surprise many, and much enhance the value of the mine. The lodes at East Wheal Rose increase in value as depth is gained; and seeing that they are so productive at not more than 20 fms. deep, it seems tolerably certain there is great wealth beneath.

NOBEL'S BLASTING GELATINE.—The Australian of Aug. announces from its Brisbane (Queensland) correspondent that a proclamation in the Government Gazette prohibits the importation of Nobel's blasting gelatine after Sept. 30.

		LE.	A D	0	RI	8	١.	
Date.	Mines.	Ton	8.	Pric	e p	er	ton.	Purchasers.
Nov. 7-Fo	xdale	50		£11	18	6		Sheldon, Bush, and Co
-	ditto	50		11	18	6		Panther Lead Co.
9-B	vleh United	15		10	19	0		Nevill, Druce, and Co.
—Ta	largoch:-							are rough and con
	Maesyrewdd	u 70		9	14	0		Adam Eyton.
	Coetia Liys	15		9	18	0		Quirk, Barton, and Co
-No	orth Hendre	50		9	11	6		Walker, Parker, & Co.
- 1	ditto	50			10	6		Quirk, Barton, and Co
V	n	160			8	6		Sheldon, Bush, & Co.
	ditto				12		******	
-Ta	nkerville Grea	t Consol	8:			-		
	Tankerville			8	12	6		Walker, Parker. & Co.
	Bog	12		8	16	0	.,	Nevill, Druce, and Co.
	Pennerley	60	***********	8	18	0	100000	Nevill, Druce, and Co. ditto
10-80	uth Darren	45		14	5	0		ditto
	has sampled							

		DTF	DE			
ate.		Tons.	Price	per	ton.	Purchasers.
v. 4-	-Pierrefitte	. 60	. £ 2	17	6	Villiers Spelter Co.
8-	-Talargoch	. 50	. 3	10	6	ditto
	- ditto	. 50	. 3	9	6	ditto
	- ditto	.100	. 3		6	ditto
	-Bog					Vivian and Sons.
	- ditto	. 15	. 3	13	0	ditto

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120 Bedford United.
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40 Killifreth.
150 Devon Great Consols. 120 Mounts Bay.
130 Devon Friendship.
150 Parys Mountain.
200 Devon Friendship.
150 Parys Mountain.
200 Prakewalls, 9s.
200 Prince of Wales.
200 Prince of Wales.
200 Eas. Blue Hills.
60 Richmond.
Shares wanted in the following mines 1—
200 West Caradon, 100 La Plata, 150 East Caradon.
200 Toganos Gold, 120 Orita Gold, 200 East Wheal Rose.
110 Old Shepherds, 300 West Orbor, 120 Treavean.
N.B.—Sellers must state number and lowest price.
NOTE—MR. A. DAVIDSON is in a position to BUY and SELL at the closest dealing prices of the hour; also to advise country shareholders what to Buy, when to Sell, and what to Avoid.

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80 Contacovil, 15s. 80 Langford, 10s. 6d. 200 West Lisburne, 13s 6d.
200 Chontales, 2s. 6d. 50 New W. Caradon, 10s. 200 West Devon, 10s.
100 Devon Friendship, 8s. 100 Parys Copper, 8s. 6d. 100 Perince of Wales, 11s 6d
40 East Blue Hills, 10s. 100 Prince of Wales, 11s 6d 50 Wheal Crebor, 9s. 6d.
201 MONA CONSOLS (Limited), s. rongly recommended. See annual report of Capt. Bawden, stating that if he was in a position to put his money into mining, Mona Consols would be the property, and he would consider he was amply repuid, and if the mine was in Cornwall or Devon, and showed such prospects at stallow depths, it would cause the greatest extilement in the mining market.

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BANKERS: The CENTRAL BANK OF LONDON.

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Can SELL the following SHARES at prices annexed:

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40 Chile Gold, 19z,
30 Leadhills, £3 18z, 9d.

225 Corporation of South
Australian Copper,
21s, 3d.

40 Monts Bay, 17z,
50 Dev. Friendship, &z, 6

25 Marke Valley, 20z,
200 Don Pedro, 3z, 6d.
25 North Blue Hills, 19z, 3

10 East Blue Hills, 19z, 3

10 Nouveau Monde, 9z

50 East Blue Hills, 19z, 3

10 Nouveau Monde, 9z

50 East Blue Hills, 19z, 3

10 Nouveau Monde, 9z

50 East Rose, 22z, 6d.

25 Ordenson Gold, £3,
25 Frontino, £2 12z, 6d.
25 Old Shepherds, 22z, 6

25 West Caradon, £2 8g

26 Frontino, £2 12z, 6d.
27 Organos Gold, £3,
28 West Lisburne, 16z 5d

40 West Devon, 17z,
29 Blue Hills, 19z, 3

10 Great Laxey, £173z,
25 Orlin, fully pd., £1 5z.

25 Western Andes Gold,
MONA CONSOLS, — A good discovery reported in this mine, A limited number of shares can be dealt in.
COLOMBIAN GOLD MINES. — Monthly profits by last returns: Tolima, £4500; Colombian, £940; Western Andes, £750. These shares are highly recommended for a certain and great rise.

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for eash or account.

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Notices to Correspondents

Much inconvenience having arisen in consequence of several of the Nurduring the past year being out of print, we recommend that the Journal stoe filed on receipt; it then forms an accumulating useful work of refer

Received,—"Shareholder" (Simon's Recf)—"J. R. P. (Paris)—"T. R. C." (Dor chester)—"W. T." (Cork)—"C. C." (Upper Clapton)—"J. C." (Widnes)—"J. H. P." (Dublin)—"Shareholder" (New York, Pennsylvania and Ohic Ralitroad Company) should address his complaint to the London office. We could not publish such a long recital of grievances—"W. M." (Glasgow)—"D. P." (Chicago)—"F. S." (Indianopolis)—"J. T." (Redruth)—"A. G." (Glasgow); We could not publish the letter respecting the Norway Copper Mines Company without the writer's name being attached.

THE MINING JOURNAL,

Bailway and Commercial Gazette.

LONDON, NOVEMBER 11, 1882.

THE COLLIERY EXPLOSION IN DERBYSHIRE.

THE COLLIERY EXPLOSION IN DERIVITIES.

For several months past there has been an unusual immunity from explosions of gas in coal mines involving loss of life. But now there has been a change in the opposite direction, which it is to be hoped will not extend, as has been so frequently the case, especially during the last quarter of the year, when more than at other times we are subjected to sudden atmospherical changes. This time the explosion took place on Tuesday morning, at one of the pits belonging to the Clay Cross Company, and situate about four miles from Chesterfield. Some of the seams of coal worked in Derbyshire give off a great deal Some of the seams of coal worked in Derbyshire give off a great deal of gas, but owing to good management and strict supervision on the part of the officials the county has been singularly free from serious disasters from explosions; but it frequently happens that such occurrences take place in districts where they are least expected, showing how necessary it is that at all mines every precaution should be taken, so as to be able to overpower any sudden out burst or accumulation of gas, by the superabundance of ventilation going through the workings. The mines belonging to the Clay Cross Company are amongst the most extensive in the kingdom, and none we believe are better managed, or have the advantage of superior systems of ventilation or of working; yet with all these advantages an explosion took place resulting in the loss of more than forty lives. There are, of course, several ways in which such an occurrence might take place; but in any case there must have been a light and an explosive mixture of gas and air. But with the limited information already given, and the works not having been explored, it would be unfair as well as premature to even hazard an opinion as to the probable cause of the explosion; but with respect to this we may have more to say hereafter when we but with respect to this we may have more to say hereafter when we have fuller information before us. Fortunately, it may be said, when the explosion took place not more than one fifth of the men usually employed in the mine were at work, otherwise the catastrophe would employed in the mine were at work, otherwise the catastrophe would have been far more serious than it was. After the explosion an exploring party was formed; but on getting to the bottom of the shaft they were met in all directions by the poisonous fumes of the deadly after-damp, or carbonic acid, which not only prevented the works being penetrated to any distance, but completely overpowered several members of the party, who had to be drawn to the surface in a prostruct state.

Ultimately and with great trouble the seat of the explosion was reached, when it was found that all the men who had been working reached, when it was found that all the men who had been working in its vicinity were dead, whilst several who were close to the shaft bottom were most seriously burnt. In all these terrible calamities with which we are so frequently visited there are certain things brought to light which might be taken advantage of so as to greatly facilitate the reaching of the dead and injured. It has been clearly shown that there are certain appliances that could be brought into requisition by which the fire-damp could be gone through with comparative ease, the dead and injured recovered, and where there was a fire, as so frequently happens after an explosion, the most effectual means could be taken for extinguishing it or for preventing it from spreading. Such an apparatus, for instance, as that invented

a fire, as so frequently happens after an explosion, the most effectual means could be taken for extinguishing it or for preventing it from spreading. Such an apparatus, for instance, as that invented by Mr. Fleuss, which can be used either under water or in a mixture however explosive it may be. His method is not a secret for it has been patented, and on several occasions it has been tested in mines as well as in specially prepared mixtures. By the system, what may be termed compressed oxygen, is taken into a mine to supply the place of that which is breathed.

This is one of the great essentials, seeing that in every breath we draw we take in a certain amount of oxygen, but about four times as much nitrogen, so that a little of the oxygen becomes fixed in the form of carbonic acid, so that the air cannot be breathed. But with a fresh supply of oxygen to replace that which has been absorbed, the air becomes fit for breathing in. By means of the compressed oxygen Mr. Fleuss has been able to go into an atmosphere, and remain in it for some hours, which was principally composed of carbonetted hydrogen and carbonic acid. In the helmet, as well as in some portions of his armour, there are places for fresh air, and this is frequently renewed by the oxygen he carries, and which can be regulated by means of a tap. The invention appears to be a most valuable one, and, we are told, can be easily applied. As we have before stated, it is on the occasions of these death-dealing explosions that we see the necessity for such appliances as we have briefly alluded to, and there does not appear to be any reason why the apparatus should not be considered a requisite at all the coal mines in which gas is known to be given off, more especially as it is not a costly article, whilst it can be easily put out and worked by any ordinary workman.

THE SALT INDUSTRY OF CLEVELAND.

THE SALT INDUSTRY OF CLEVELAND.

We last week drew attention to the new industry that was about to be initiated in the Cleveland district by Messrs. Bolckow, Vaughan, and Co., and we now find that operations have just been commenced. It may be recollected that a few years ago Messrs. MATHER and PLATT, of Salford, were engaged by the firm of Bolckow and Vaughan to bore for water, and in doing so they came upon some rock salt. The bore-hole was of large size, and commenced in a pit about 90 yards, from which depth the hole at the upper part was 22 in. in diameter, and the lower part 18 in. The strata brought up were such as to leave no doubt whatever that the rock-salt was then proved. The strata in the bore-hole was—Drift, 70 ft.; upper red marls with gypsum, 89 ft.; red sandstone, 900 ft.; ditto, with saliferous marls, &c., 147 ft.; rock-salt, 100 ft.; saliferous marls mixed with salt, 7 ft.: total, 1313 ft. No rock-salt appears to have been met with in the upper red marls in the bore-hole, but only gypsum, which are the usual accompaniments of rock salt. It is, therefore, evident that there is a very large area of rock-salt in the Cleveland district and in the immediate neighbourhood of Middless borough. However, having proved the existence of the rock-salt, the Cleveland district and in the immediate neighbourhood of Middles-borough. However, having proved the existence of the rock-salt, the company appears now to be determined to develope it, and that on an extensive scale. During the present week Messrs. MATHER and PLATT have been engaged with a number of men in putting down the necessary appliances in connection with their own well-known boring apparatus. The bore-hole is to be 28 in. in diameter, and the work apparatus. The bore-hole is to be 28 in. in diameter, and the work will be resumed at the same place where the first boring we have alluded to was made, but the depth will be greater by nearly 300 ft., as at the greater depth it is expected that the salt will be found free from the marls and other accompanying deposits, so that the brine will be pumped up nearly pure. Messrs. MATHER and PLATT, who have had a good deal to do with the salt mines in Chester, give it as their opinion that the deposits of Middlesborough, as regards quality are fully equal, at least to those of Northwich. It is said that Messrs. Bolckow, Vaughan, and Co. purpose putting down an extensive plant for the converting of the brine into sait, for which there is an excellent market in the Newcastle district. Messrs. Bell Brothers, of the Port Clarence Works are also about to open out at the point

where they have tapped the salt, and Messrs. Althusen, of the Newcastle Chemical Works, and who work up nearly 1000 tons of salt weekly, are also about to open out at Cowpen Bewley, where the thickness of the beds in the district are said to be upwards of 100 ft. It will be seen that the new industry is now being commenced in earnest, and of its success there appears to be no question.

THE DEVELOPMENT OF SOUTH WALES.

THE RHONDDA AND SWANSEA BAY RAILWAY SCHEME.

THE DEVELOPMENT OF SOUTH WALES.

THE RHONDDA AND SWANSEA BAY RAILWAY SCHEME.

The prospectus of the Rhondda and Swansea Bay Railway Company is now before the public, and already it has created a most favourable impression, and received a considerable measure of support from the mining and commercial community. The great object of the scheme is to ring the far-famed and only partially developed coal field of the Ithondda Valley into direct and unbroken communication with the rapidly rising and important scaports of Swansea, Neath, Port Talbot, and Briton Ferry. In doing this it will provide other sea outlets for the practically inexhaustible supply of steam coal of the Rhondda and Avan Valleys, and traversing an immense maiden mineral basin will open up vast deposits of bituminous coal, so urgently required for the ironworks, zincworks, tin-plate works, and other fmetallurgic industries which stud the whole district, but principally those of Swansea, Landore, Neath, &c. The value of the proposed line as a commercial speculation may be pretty well gauged from the fierce and determined opposition it received through its Parliamentary stages at the hands of the Taff Vale Railway Company. That company at once perceived its monopoly of the immense traffic of the Rhondda Valley coal district would be broken by the proposed line to Swansea, and its 18 per cent. dividends likely to be interfered with. They fought with a pertinacity worthy of a better cause, but it was useless. They could not adequately develope the district themselves, yet they endeavoured to prevent others from assisting. Many of the most important colliery proprietors, ironmakers, tin-plate manufacturers, merchants, and shippers voluntarily came forward as witnesses for the new line, demonstrating the fact that Cardiff, however spacious its dock accommodation, is insufficient for the rapid shipment of the coal; whilst the metal manufacturers showed that they would be vastly benefited by having a direct, and, consequently, far cheaper supply of the coa was unanswerable, and the promoters Bill received Parliamentary sanction—the fact being the occasion of much public demonstration throughout the whole of the localities more immediately concerned.

The mining and commercial development of South Wales during the past 50 years has been as pronounced as any part of the king-dom, and Swansea and its adjacent districts have advanced equally rapid as any part of Wales. The manufacturing and commercial industries, however, have had their seasons of activity and depression. For the past seven years there has not been great commercial industries, however, have had their seasons of activity and depression. For the past seven years there has not been great commercial prosperity—our great mining and metal industries have been depressed. A new epoch has, however, dawned, and there are signs of revival and returning activity in all directions. The Rhondda and Swansoa Bay Railway will unquestionably be one of the principal means by which this revival will be quickened. Fortunately, Swansea is prepared for any increased coal traffic which can be brought down over the new route from the great Rhondda and Avan coal fields. Last year the Prince of Wales Dock was opened at Swansea by their Royal Highnesses, which dock not only doubled the entire dock area of the port, but provided the deep water facilities for the large ocean-going steamers so urgently required.

Some 10 or 12 years ago an official survey of the South Wales coal field was made by means of a Royal Commission, consisting of Mr. (now Sir) H. Hussey Vivian, M.P. for Glamorgan; Geo. T. Clarke, of Merthyr; and Mr. Evan Daniel, C.E., of Swansea—and after a most exhaustive enquiry these gentlemen reported that the superficial area of the South Wales coal basin was 906 square miles; greatest thickness of the strata known as the coal measures 10,000 to 12,000 ft.; number of coal seams not less than 2 ft. 25, which contain a thickness of about 84 ft of workable coal. The total quantity of coal in the basin was returned by the Commissioners in round

tain a thickness of about 84 ft of workable coal. The total quantity of coal in the basin was returned by the Commissioners in round figures at 36,566,000,000 tons. After making necessary deductions it is estimated there remains of workable coal, within 4000 ft. of the surface, 31,783,000,000 tons. Calculating at the then rate of consumption (in 1870)—13,664,112 tons per annum, this coal supply of South Wales will last 2300 years. Whilst, then, at one end of the proposed new line of railway we have this immense coal field (much of it untapped for want of communication), let us see what there is at the other end, and what are the prospects of the undertaking as a commercial speculation. The line will run from the Rhondda Valley through the Avan Valley to the ports of Swansea, Neath, Port Talbot, and Briton Ferry, in each of which ports spacious docks exist, with all necessary drops and facilities for the most extensive shipwith all necessary drops and facilities for the most extensive shipments. Swansea has been justly termed the centre of the metalurgic industries of the whole kingdom, and probably within a radius of 10 miles there are a larger number of smelting-works, iron and of 10 miles there are a larger number of smelting-works, iron and steel works, tin-plate works, &c., than in any other place, not only in the United Kingdom, but in the whole world. Prof. Phillips once wrote in reference to the copper trade that of the entire make in Great Britain fully nine-tenths is smelted in the Swansea district, and the remark holds good to-day. Within a radius of 20 miles of the town there are no less than 38 ironworks, whilst the celebrated Landore Steel Works (Messrs. Siemens' and Co.) are amongst the largest and most scientifically arranged in the kingdom; and Sir John Jones Jenkins, M.P., has also recently erected new steel works near Carmarthen. There are a large number of patent fuel works in the immediate district, the exports from the port being nearly 200,000 tons per annum. There are 550 collieries within a radius of 40 miles of the port, the exports of coal bordering upon a million tons per annum. Swansea is also the principal seat of the tin-plate trade of the whole kingdom, having nine of the largest works extant within a radius of three miles of the post-office, these having an aggregate of 40 mills (some being the largest of the kind in the world), gregate of 40 mills (some being the largest of the kind in the world), and capable of turning out a total of 29,000 boxes of finished tin-plates weekly, or about a million boxes annually, which is about one-third of the total exports of the whole country. We need hardly say that with such a vast number of important works, employing many thousands of hands, several millions of tons of coal are consumed by them, and the new line will act as a most important and direct feeder, as the bituminous coal basin traversed by the proposed route will be developed, and large areas now unworked brought over the line to the seat of these works.

over the line to the seat of these works.

We have said that in all probability South Wales generally, but
the more western part of the county especially, is on the eve of
another of those commercial epochs which occasionally take place.
Swansea and its districts have progressed in spite of a variety of
most adverse circumstances, or rather its circuitous access with the
great steam coal basin of the Rhondda Valley has militated most
seriously acquired in compactive at respective the distance. seriously against its commercial prosperity. At present the distance is no less than 42 miles, but which will be reduced to 15 miles by the proposed line; from Treberbert from 54 to 25 miles, and thus more than 50 per cent. will be saved in time and money. When the line is completed Swansea will be placed at about the same distance from the Rhondda basin as Cardiff is at present; but the favourable geographical position of Swansea (being 60 miles nearer the sea) will unquestionably rapidly augment its coal shipments, more especially those by large ocean-going steamboats, for the express accommodation of which the new deep water docks of 26 acres has been created

and equipped by the Harbour Trustees.

Having thus rapidly glanced at the important mineral district, the large number of important metallurgic works, and the docks—all of which will be served by the proposed Rhondda and Swansea Bay or which will be served by the proposed knondda and swansea hay line—we can only say that so far as the future can be gauged by the past and all surrounding circumstances, we can have no possible hesitation in recommending the line as a safe and profitable commercial speculation. The Taft Vale line has for many years past paid its fortunate shareholders from 15 to 18 per cent. dividend, and the Rhymney line pays its 12 per cent.; but neither of these lines are surrounded with such favourable circumstances as the Rhondda. The great inverse in the output of the Rhondda Valley in the future. great increase in the output of the Rhondda Valley in the future be to the west—Swansea lies westward 60 miles nearer the sea than

Cardiff, and the dangers and delays of the intricate channel voyage are obviated, whilst there are no metal works in Cardiff requiring coal. We have said nothing of the large passenger traffic which will take place over the new line during the summer excursion months, as we believe the mineral traffic alone will be sufficient to pay a dividend equal to at least 10 or 12 per cent. and probably 15 per cent. in a few years. One most favourable feature is that the new line commands the confidence and support of the principal manufacturers and merchants of Swansea and district. The directors are—the Earl of Jersey (Chairman); Sir John Jones Jenkins, M.P. for Llanelly (deputy-Chairman); Sir H. H. Vivian, M.P. for Glamorganshire; Charles Bath, Esq., director of the Glamorgan Bank; Thomas Cory (Cory, Yeo, and Co., colliery proprietors), Swansea and London; Thomas Davies Daniel, tin-plate manufacturer, Aberavon; John Richardson Francis (firm of Richardson and Co.), Swansea and London; and Morgan B. Williams, Chairman of the Swansea Bank. The high commercial status of each and all of these gentlemen is a guarantee of the bona fide nature of the proposed line. It is no bogus company, and no sea-bubble speculation. Its object is the development and expansion of large mineral deposits, bringing them down for shipment to the important and rapidly rising seaport of Swansea, and feeding the hundreds of large iron, steel, tin-plate, and other manufactures in that district, and as such it must shortly become one of the most important mineral lines in the kingdom, and will probably rival the Taff Vale in its 15 and 18 per cent.

SYSTEMS OF WORKING LEAD MINES, &c.

[FROM A CORRESPONDENT.]

[FROM A CORRESPONDENT.]

It appears that lead mining, more especially in the North of England, is not in so satisfactory a state as could be desired, so far at least as the workmen are concerned. Mr. W. Beaumont, it is stated, has handed over the Weardale Mines to a company, the royalties having been reduced by the Ecclesiastical Commissioners. The Weardale Mines, it may be said, were held by Mr. Beaumont at an annual rent of 4600%, but this has been considerably lessened. What, however, appears to have been, and probably is still, the great defect is the system of working, by which a man may earn by chance good wages, or, perhaps, scarcely any at all. Advances were made to the miners to the extent of about 3%. for a month, with which the men went into the hills prospecting for a yein, and, if found, they good wages, or, perhaps, soarcely any at all. Advances were made to the miners to the extent of about 3l. for a month, with which the men went into the hills prospecting for a vein, and, if found, they worked, and according to its richness in metal they were paid—so much per bing of 64 stones. But, more recently, the men had to discover a vein and begin working it before they could draw any money. It may be needless to state that such systems cannot be expected to work satisfactorily, seeing that a miner with a family could never depend upon receiving a certain or approximate amount of wages. Still the men, long accustomed to go out into the high grounds prospecting, prefer it, provided they receive the lent money they have long been accustomed to, although the average remuneration is considerably less than what is paid to an ordinary labourer at a coal mine. But it is certainly not so good as was the practice a couple of centuries ago, when, singular as it may appear, the same system is now being advocated in connection with all mines—that of a sliding scale. From Mr. W. M. EGGLESTONE's recent work on "Stanhope and its Neighbourhood" we are told that the Moor Master let and set by deed unto four men, "to search for lead in the mine called Lodge Field Slitt, from the floor of the slitt south-west to ye to the head of the slitt north-east, and 100 yards upon the new unwrought ground, the conditions being that the tackershould pay to the Moor Master in clean, well-washed and dressed ore, also the other eight parts, at the price of twenty shillings a bing-lode, when lead sells at Newcastle at ten pounds the fother, and to increase or decrease two shillings in every binglode as the price of lead by the fother did rise or fall every twenty shillings at Newcastle." To our thinking this system is a fair one, and well suited to the present time. In one or two respects it is similar to the Derbyshire custom, where the miners can enter and open out certain ground without the consent of the owners. But this mode has not w

much money as those who worked for mineowners at defined wages.

At Alston Moor, in Cumberland, the miners work in partnership, raising the ore at a certain price, and generally work in eight hours shifts. Arrangements in some instances are made at the surface by which the men can remain for a shift without going to their homes, some of which are a considerable distance from the mines. With respect to the prospecting in search of ore at Alston Moor there does not appear to be much difference, as in other districts, where it is expected that a lode or lodes is likely to be found, permission to search is asked from the lord of the manor, who in his own interest, expected that a lode or lodes is likely to be found, permission to search is asked from the lord of the manor, who in his own interest, as a rule, may be expected to respond willingly to such an application. From the hill side, where the ore is expected to be met with, a level is driven in the direction where the vein is supposed to be sufficiently high to admit of the conveyance by horse-power or otherwise of the strata that has to be removed. Rails are then put down, and trams brought into operation to carry away the stuff. The men then drive on straight below the first stratum until a vein is reached, which is then followed up by means of rises and drifts, the latter being generally about 6 ft. in height and about 3 ft. in width. 'If the vein in the first instance is sufficiently rich it is worked in the usual manner, but if poor the drift is continued downwards until a better and richer vein is met with. In the best appointed mines the ore is raised by drawing-engines, which also supply the motive power for other purposes as well. But the important work may really be said to commence at the surface when the ore has been drawn up, and has to pass through several stages prior to going into the furnace. In the North the usual plan is to gather the ore at the top, and then divide it according to its quality and place it in heaps. Some of it is found to be free from all earthy and other impurities, and without much further trouble is ready for smelting. But in others in which there is clay and other material expected with the heaps. Some of it is found to be free from all earthy and other impurities, and without much further trouble is ready for smelting. But in others in which there is clay and other material connected with the ore, the latter is at once crushed and washed, so that little is left but the pure metal itself. The washing process is performed by means of jiggers, consisting of seives of different degrees of fineness, and through these the ore is passed from one to the other until the ore comes out in a comparatively pure and powdered state. The ore being thus prepared is ready for smelting, or nearly so at least, for it is to some extent calcined so as to free it from sulphur, which appears to have an affinity for most ores, and one that at times causes a good deal of trouble. But when free from such impurity it is taken and mixed with lime and small coal as a flux, and put into the furnaces and left until it is completely smelted. It is then run off and taken off to the purifiers and crystallised; the lead that is known to contain a certain proportion, of silver is at once removel to a furnace specially constructed for the purpose, when the silver is extracted and kept apart from the other products.

In the North the principal smelting-works are those of Mr. W. B.

In the North the principal smelting-works are those of Mr. W. B. BEAUMONT, at Allendale, Alston Moor, where there is an immense horizontal chimney stack, from which the deposits of lead caused by the fumes can be extracted, instead of being wasted, as was the case for-merly. There are also the works of the Governor and Company of Lead Smelters, Nenthead, Alston Moor. At the latter there is produced a well-known chemical, litharge, frequently used as a depilatory, and is extensively purchased by chemists and druggists. The quantity of silver obtained from lead ores varies a good deal in different districts. In Northumberland and Durham it is about 12 ozs, to the ton of ore, in Camberland 13 ozs., Westmoreland 12 ozs., whilst in the Isle of Man it is fully 20 ozs., the richest of the ores raised in the kingdom in which silver is found. The lead itself is found as galena or as a carbonate, the former the most plentiful, being found in fissures; the small ones, which are on the level of strata, being known to the miners as strings, whilst those which are large, and rise or fall with the adjoining strata, are known as veins. In addition to the lead ore, barytes, or barium sulphate, now largely obtained for the purpose of converting into white paint, and so superseding the deadly white lead, is found at the mines of Fallowfield, Settling Stones, and Stonecroft, in Northumberland and Durham, and at Blaghill, Clargill, and Force Crag, in Cumberland. In addition,

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there is fluor-spar in all colours, green, pink, violet, red, &c. Iron and copper ore have been found in connection, or at least at no great distance from the lead, but not in sufficient quantities to be profitably worked. But it is no unusual thing to find ironstone immediately connected with veins of lead. In Cornwall, for instance, there are deposits of spathose ore that are believed to be the "backs" respectively of lead and copper lodes rather than indications of greater deposits below. The Allendale and Weardale Mines have been the most productive in the kingdom, and under the new arrangements it is to be hoped that they will be again in that position, inding plenty of employment for the miners that have so long been connected with them. In Cumberland the Governor and Company of Lead Smelters produce about one-half of all the lead ore that is mised in that county, but there is every reason to believe that the mining has become more profitable than it has been for some conbecome more profitable than it has been for some coniderable time past.

THE PARRAFIN OIL TRADE.

There is not in the United Kingdom a trade that has successfully assed through such extreme vicissitudes as the mineral oil trade of passed through such extreme vicissitudes as the mineral oil trade of Scotland, which under the most adverse circumstances has been a very remunerative business. Petroleum, the great competitor of paraffin oil, has from excessive production reached a climax recently in not realising cost price on this side of the Atlantic, though the cost was reduced to a minimum by the enormous flow of recent wells. Improved distillation of shale, with careful refining, has resulted in an increased yield of superior products at less cost than formerly, while the improvement is especially marked in the more valuable resolutions. productions.

while the improvement is especially marked in the more valuable productions.

The most recent improvement, and, perhaps the most important yet invented, is that of Messrs. Young and Beilby, which is being adopted by the Clippens, Oakbank, and other oil companies, by which the profits will be augmented by increasing the production of ammonia from the shale 150 per cent., besides a further invention, which will make considerable profit from the fuel used, which until now constituted a serious charge to the cost of manufacture. It is a lucky coincidence that at the very time when the trade is about to increase the advantage it has gained over the Americans, and adding to the already large profits, we learn from reliable sources that the long looked-for decline in the production of petroleum is showing itself with unexpected suddenness, so that the pluck, energy, and skill of the Scotchmen are about to be rewarded by profits likely to exceed the most sanguine expectations of the shareholders.

Paraffin oil, long inferior in many ways to petroleum, has of late become superior in almost every respect, through improved manufacture in the former instance, and from deterioration, owing to matural causes in the latter. The price realised for paraffin oil by the makers at their works, exclusive of casks and charges, has recently been reduced below 3d. per gallon, or about one-tenth of the highest price touched within the last six years, and at least one-third of what would be considered reasonable. At present the value is about 5d. under similar circumstances; but unfortunately for the manufacturers most of them are contracted for the winter season at the low prices, and consequently are unable to derive any immediate the low prices, and consequently are unable to derive any immediate

about 5d. under similar circumstances; but unfortunately for the manufacturers most of them are contracted for the winter season at the low prices, and consequently are unable to derive any immediate benefit from enhanced values, except for a small surplus. Paraffin from which candles are made has had its ups and downs, and has for some time also suffered from extreme depression, being so cheap that tallow could not compete with it, while the consumption increased so largely that the valve has risen 50 per cent., an improvement in a few months equal to 100,000l. to the six principal companies, and the article has been permanently placed on a sounder basis, showing every signs of further advance.

Lubricating oil has been much improved in quality, and is a product of considerable importance, also improving in sympathy with burning oil and paraffin. Ammonia, through increased production,

duct of considerable importance, also improving in sympathy with burning oil and paraffin. Ammonia, through increased production, is likely to drop a little in value, but even a very slight reduction will be followed by an enormous addition to the consumption, which will be practically inexhaustible, owing to its great value to the farmer, and the decline in the quantity and quality of guano at present known to exist. The inventions of Messrs. Young and Beilby will more than compensate for any possible reduction in value of ammonia; while the inevitable fall in sulphur will favour the oil manufacturer in the refinery as well as in the ammonia department.

THE PROPOSED SHIP CANAL FROM MANCHESTER TO LIVERPOOL, AND THE YORKSHIRE MINING FIELD.

The scheme for making a ship canal from Manchester to Liver-pool has already received a large amount of support from the most influential merchants and manufacturers of Lancashire and Cheshire, and there is now no doubt that the Parliamentary fund of 100,000%. will be raised. At a meeting held at Manchester, on Friday last, the Chairman, Mr. DANIEL ADAMSON, the well-known metallurgist and manufacturer, pointed out the benefits that would be derived from having water communication of such a character between Liverpool and Manchester, that the largest ocean-going vessels could come to the latter; and so hearty indeed is he in the cause that he also desired that if his own country are required to the course that it is not account to the latter. the latter; and so hearty indeed is he in the cause that he also declared that if his own countrymen would not co-operate with him he would go to France and ask M. DE LESSEPS to carry out the project. But we feel sure that there will be no necessity to go outside the county of Lancaster itself to find the money for carrying out a scheme that would be of such immense value, not only to Manchester, but to the districts many miles away from it. It was the Glasgow capitalists in particular that were instrumental in connecting Greenock and Glasgow by means of the Clyde, and if such could be done in Scotland surely as much at least might be expected from wealthy Lancashire. But of the districts at some distance from Manchester none in all probability would be more benefited than the West Riding none in all probability would be more benefited than the West Riding mineral field. On this point Mr. Adamson said, among the benefits it would confer on the local trade was the trade that would come from the Yorkshire coal field over the canal, so that the Yorkshiremen would welcome any scheme which afforded additional outlets for their productions, and there could be no doubt the canal would do a great deal for them. South Yorkshire, we may say, contains do a great deal for them. South Yorkshire, we may say, contains beds of steam coal extending over vast areas, and of a quality that cannot be excelled. Being of a very hard character, it is more suitable than any other for shipping for long voyages, seeing that owing to its non-liability to break, the gas does not ooze out the same as it does from a softer description of coal, yet owing to the position of the field, and its distance from any sea port, comparatively little of it is sent away for the use of steam vessels or for exportation. Barnsley and Wombwell may be considered as the centres of the field in which the finest steam coal is to be found, but these are 66½ miles and 62½ miles respectively from Grimsby Docks, 45 and 49 from Hull, and 76 and 72 from Liverpool.

In addition to this, the South Yorkshire district is wedged in between two others which are nearer than it to good markets. West Yorkshire, which includes Normanton, is nearer to Hull, and has

tween two others which are nearer than it to good markets. Yorkshire, which includes Normanton, is nearer to Hull, and has consequently a lower rate to that port. On the other side Derbyshire is much nearer to the Metropolis, and has a rate there lower by shire is much nearer to the Metropolis, and has a rate there lower by 1s. 4d. per ton than from any port of the West Riding. But these disadvantages would be more than counterbalanced were Manchester to become a port of shipment. The coal raised in West Lancashire is amongst the best for gas and household purposes, but is by no means well adapted for steam. As it is, therefore, many ships leave London and Liverpool in ballast to take in coal at Newcastle, Cardiff, or Newport. But this would be obviated by the proposed canal, for the coal would be taken from South Yorkshire to Manchester by the Manchester, Sheffield, and Lincolnshire Railway at a moderate cost, as the distance would only be about 36 miles. As the coal, too, is all that could be desired, it would sell readily from the bunkers of the vessels trading to and from Manchester, as well as those more directly connected with the Port of Liverpool. Of the quantity required for the use of steamers, it appears that last year it amounted quired for the use of steamers, it appears that hast year is the for those alone trading to foreign countries to 5,227,588 tons, whilst for those alone trading to foreign countries to 5,227,588 tons, whilst for those alone trading to foreign countries that has our coasting vessels. there would be also a large quantity taken by our coasting vessels. It has also been stated recently by a gentleman long connected with the coal trade that the fine steam coal of Newcastle is fast becoming exhausted, and that some 20 or 30 years at most in all probability

will see the end of it. Such being the case, the practically inexhaustible field of South Yorkshire in which there are many square miles of steam coal as yet untouched, and not even sunk to, must become the principal one in England, and the one in which the requirements made will be the greatest. The Yorkshire field is much larger than those of Northumberland and Durham, whilst its annual output stands next to the two combined, being considerably in excess of that of the entire of South Wales. But with the facilities that the proposed port would give to the southern protion, extending cess of that of the entire of South Wales. But with the facilities that the proposed port would give to the southern portion, extending for some four or five miles beyond Barnsley, it would soon take the lead as the greatest producer in the kingdom. The shareholders of the Manchester, Sheffield, and Lincolnshire Railway, although they have a port of their own—that of Grimsby—would soon find that they had a more valuable one at Manchester, owing to its proximity to the South Yorkshire coal field, from which in all probability the traffic in coal would amount to many thousands of tons weekly; Manchester, in fact, would become the nearest seaport to the largest coal field in England, and with the largest undeveloped area of coal of any. A few years since coal was sent to Liverpool from the West Riding for the use of steamers, but owing to the railway rate for such a long distance it was found not to pay. But all this would be altered by Manchester becoming a port for shipment for coal that would only have to be carried from 30 to 40 miles by railway. The project, it need scarcely be said, is meeting with the warmest supproject, it need scarcely be said, is meeting with the warmest support from mine sowners as well as the iron and steel manufacturers in the southern part of the West Riding, including Sheffield, Rotherham, Barnsley, and Penistone, all of which would be immensely benefited by it. benefited by it.

COAL IN COLORADO.

The existence is reported in Gunnison County, Colorado, of a bed of coal 30 ft. thick, covering in one place 1600 acres. The coal deposit is situated on a small stream, tributary to the Uncompahare, about eight miles north-west from the Las Pinas Indian agency and 176 miles south-west from Denver. The coal crops out along the mountain side about 80 ft. above the plain, and where it has been exposed it shows a thickness of 30 ft. of solid coal. The coal is said to be semi-bituminous, and is of a jet black colour. It has been analysed by Prof. WUTH, of Pittsburg, Pennsylvania, and has been pronounced by him to be of an excellent quality. It is almost entirely free from sulphur, and will smelt iron without coking. It has been used by the miners of the locality for the purpose of dressing their steel drills, and has been pronounced by them to be superior to charcoal for that purpose. There is no doubt, taking into consideration the thickness of the vein and the extent of the deposit, that it is one of the largest veins of coal yet opened out on the North American Continent. It is singular that the deposit occurs on the Ute Indian Reservation; it was discovered about two years since when the Indians held possession, but the prospectors who came upon it kept the matter as secret as possible until the Indians were got off the Reservation.

This discovery of coal in Colorado, coupled with other discoveries

This discovery of coal in Colorado, coupled with other discoveries in the neighbourhood of Puget Sound, must have a powerful influence upon the material development of the great North-West of the United States. The Northern Pacific Railroad Company will be opened throughout to Puget Sound next year, and will, no doubt, assist in pouring in a great flood of life into regions in which there has hitherto been scarcely any white population. We may expect, then, to see a greatly extended development of manufacturing industry in a few years in localities in which even agriculture has scarcely yet been attempted. The infinite wealth of the infinite West has, indeed, hitherto been a scaled book even to the Americans themselves: but this is not likely to be the case much longer, and west has, indeed, interto been a seated book even to the Americans themselves; but this is not likely to be the case much longer, and we may depend upon it that in Montana, Idaho, Colorado, and Washington Territory the earth will now be made to yield up her treasures much more rapidly and much more readily than hitherto. It will be remembered that in 1846 there were prolonged negociations between the Governments of Great Britain and the United States with reference to the rights of the respective countries in Oregon. tween the Governments of Great Britain and the United States with reference to the rights of the respective countries in Oregon. Although at one time the Oregon "difficulty" looked very threatening, it probably never attracted a very large amount of attention in this country. But after the lapse of nearly 40 years we shall at length have some light thrown upon the value of the territory which England then surrendered to the Great Republic. There is no doubt that immense natural resources still remain to be turned to account in Canada, and that if the British authorities make the best of the Great Dominion our wealth and influence may still be very considerable upon the North American continent. But, however this may be, there can be little doubt that when we abandoned territory in Oregon siderable upon the North American continent. But, however this may be, there can be little doubt that when we abandoned territory in Oregon in 1846 we surrendered natural resources with the full extent and value of which we are only now about to be made acquainted. On the other hand, it may probably be remarked with equal truth that the Americans have blundered into some of the remarkable success which they have certainly achieved. We say this, because the great West, which is now opening itself out as an attractive field for American capital and American industry, was utterly unknown to WASHINGTON, FRANKLIN, and JEFFERSON, who may be justly termed the fathers of the American Union. No doubt the States, for the independence of which WASHINGTON drew his sword 106 years since, appeared to that great patriot-general an inheritance worth contending for; but WASHINGTON knew nothing of Illinois, never heard of Minnesota, and would certainly have been puzzled to have told any Minnesota, and would certainly have been puzzled to have told anyone the way to Oregon. However, it is not becoming to say anything derogatory of the reputation of GEORGE WASHINGTON because he was not fully acquainted with the wonderful resources of
the vast regions of which he achieved the national independence,
although the Americans since the days of WASHINGTON have done
much to turn the natural resources of the United States to fuller count, a great deal more in all probability, still remains to be ac-

A WELSH SAFETY-LAMP INVENTION .- Considerable interest has A WELSH SAPETY-LAMP INVENTION.—Considerable interest has been taken in leading Welsh mining circles of late in a safety-lamp invention which has been made public by the ingenious propounder, Mr. THOMAS THOMAS, of Ynystir, Rhondda Valley. So strong and unanimous is the confidence felt in this latest of improvements of this nature that the 10,000 men represented in the Rhondda Valley miners' organisation have voted a sum of money out of their district funds to enable the inventor to appear next week before the Royal Mines Commission. Dissatisfaction is felt with the "Musseler" because it is held that it is unsafe when inverted in the examination of the pit tops, &c. This has come to the knowledge of the Commisthe pit tops, &c. This has come to the knowledge of the Commissioners, who have accordingly requested explanatory evidence to be at once given to them on the matter. The Rhondda inventor regards all difficulty and objection as obviated in his lamp. He submits that he reduces the risk of explosion by surrounding the lamp gauge with shields to break the force of the air currents which ventilate the mines and which are liable to contain axplosive axs. The gauze with shields to break the force of the air currents which ventilate the mines and which are liable to contain explosive gas. The and has been lamp is self-locking and extinguishes in the act of opening. The provisional specification gives further details, from which we gather that the first part of the invention is more especially applicable to that class of lamp known as the "Clanny" and lamps of analogous construction. Two cylindrical shields surround the gauze and are preferably arranged on the pillars of the lamp. The upper shield extends from the top of the lamp down to a point near the ring which forms the junction between the gauze and the glass: there the shield is turned at right angles and forms a partial joint with the gauze. The portion of gas which intervenes between the bottom of the shield and the ring is prevented from exposure to the with the gauze. The portion of gas which intervenes between the bottom of the shield and the ring is prevented from exposure to the velocity of the air current by a second cylindrical shield which extends upwards for that purpose from the ring; being of larger diameter it overlaps the upper shield, which protects the upper portion of the gauze in like manner. The lower shield having an open mouth, free access of air to the lamp is obtained, and the area of the top of the gas is regulated to allow of the proper exit of the products of combustion. The second part of the invention consists in forming the lock of the lamp of a small hollow box, affixed to the bottom portion of the lamp-case, and containing a catch or button to the upper side of which is fitted a horizontal spring. The spring catch (or button) extends into the lamp bottom or oil vessel; the

lamp is locked and can be opened only by a V shaped or other special form of key. The third part of the invention consists in the employment of a cylinder or tube open at each end and pierced to permit the passage of a pricker for the regulation of the wick in the usual way. This cylinder, the ends of which turn outwards in the form of flanges, is made to slide vertically over the burner, and when the lamp bottom has to be screwed home the flanges on the upper end of the cylinder come into contact with the ends of two or more arms, which are thereby made to nivo on the binges by which the end of the cylinder come into contact with the ends of two or more arms, which are thereby made to pivot on the hinges, by which they are sufficiently secured to permit the cylinder to rise in the place where the arms resume their normal position. When the lamp bottom is unscrewed the cylinder is retained in the case, and the light is thereby extinguished as it is being withdrawn. The lower flange of the cylinder is notched to provide for the pricker. The lamp has been tested by Mr. H. Lewis, of the National Colliery; Mr. T. Griffiths, Cymmer Colliery; Mr. D. Thomas, Dinas Colliery, and other competent and experienced mine managers—all unite in commending its superior and marked excellence as an invention "for the perfect safety of underground workmen as regards ignition of gas." perfect safety of underground workmen as regards ignition of gas."
The inventor is a practical working collier, and to show his bona fides and disinterestedness he has conditionally offered to hand over the lamp and accruing profits to the workmen of the district. He lays stress on the fact that he merely aims at saving human life.

SOUTH-WEST LANCASHIRE COALOWNERS' ASSOCIATION.—The annual meeting of the association was held on Tuesday at the Queen's Hotel, Manchester. The chair was occupied by Mr. W. H. Hewlett, of the Wigan Coal and Iron Company, the retiring President, and there was a large attendance of the principal colliery proprietors of the district. Mr. C. G. Jackson, manager of the Chamber Collieries, Oldham, was elected President for the ensuing year. Mr. Waldeck explained to the meeting a scheme for constructing a new railway from Hest Bank to Ulverstone across the sands, by which the railway distance between the two places would be reduced from 31 to 17 miles. Part of the scheme consisted of the reclamation of a large area of waste land now covered at high tides, and in view of the rumoured acquisition of the Furness line by the and in view of the rumoured acquisition of the Furness line by the Midland Railway Company special importance was attached to the proposed scheme.

BRITISH ENTERPRISE IN COLORADO - LEADVILLE BULLION PRODUCT.

The publication of the statistics of the bullion and ore product of Leadville for the quarter ended Sept. 30 must be particularly gratifying to British capitalists interested in mining in Colorado, since lying to British capitalists interested in mining in Colorado, since not only has the return for the nine months reached the handsome amount of \$12,393,273, or over 2,500,000l. sterling, but the September quarter is the largest yet, the figures being \$4,575,334, or 915,067l., the amount being made up of—lead, \$1,130,251; silver, \$1,988,142; gold, \$130,960; and ore shipped, \$1,326,111. The highest return for any single concern was that from the La Plata, whose total was \$641,677; the Arkansas Valley Smelter standing next for \$627,985; and Cummings and Finn following for \$609,870. The lowest is the Five-twenty Mill, which obtained \$1000 worth of gold. The success of the several companies appears very general.

Five-twenty Mill, which obtained \$1000 worth of gold. The success of the several companies appears very general.

The telluride ores of Boulder County are at present attracting considerable attention. It seems that only twice before in the history of mining has this class of ore been encountered in any quantum of the contraction of th tory of mining has this class of ore been encountered in any quantity—in the mountains of Transylvania and in Calaveras county, California—but in neither instance in such novelty and abundance as they exist in Boulder County. The telluride belt, as at present known, is about 13 miles long by 3 miles in width, extending in a northerly direction through Gold Hill, which is 5 miles from its southerly extremity. The country rock, which is at the northern part of the belt, which is a micaceous or gneissic schist, is in the remaining portion principally gneissic granite. The slight local variations of the country rock in this belt have no observed relation to the contents of the lodes, differing in this respect from the telluride veins in Transylvania. The most noticeable variation in the character of the

of the country rock in this belt have no observed relation to the contents of the lodes, differing in this respect from the telluride veins in Transylvania. The most noticeable variation in the character of the contents of some of the voins is the gradual partial substitution of the sulphide species for the telluride. Telluride ores contain a large proportion of gold and sliver, and are, therefore, very valuable. Calaverite from the Slide Mine has yielded as much as 44 per cent. gold, while sylvanite contains about 25 per cent. gold and 12 per cent. silver, and petzite 25 per cent. gold and 40 per cent. silver.

The Slide Mine, which is at Gold Hill, has a very attractive show at the Exposition of telluride ore [of almost every variety occurring in the district. The collection weighs over 3000 lbs., and includes pieces varying in size from hand specimens to lumps weighing half a ton. The latter, which are from 600 ft. below the surface, are of the usual bluish grey quartz rock, and show the width of the "pay." Native gold occurs in the telluride ores quite frequently, and many of the pieces on exhibition show it in the form of wires, lumps, and incrustations. Another Boulder County concern—the Prussian Mining and Milling Company—may be mentioned. It was organised under the laws of Colorado on Sept. 5, 1881, and has paid eight dividends since that date, aggregating \$106,500. The last dividend, amounting to \$10,500, being 7 cents a share, was payable on the 14th inst. There is a large amount of ore in sight, estimated at \$750,000. Messrs. Leach and associates deserve praise for their successful efforts in concentrating the low grade tellurium ores from the mines of this company; ores that run as low as \$12 a ton and difficult to dress are treated by them at a handsome profit. They are now building a milding company; ores that run as low as \$12 a ton and difficult to dress are treated by them at a handsome profit. They are now building a mill with a capacity of 40 tons a day for Prussian ores alone; when com-

with a capacity of 40 tons a day for Prussian ores alone; when completed their present 20-stamp mill will be used for custom work.

Returning to Leadville some details may be given which will be the more interesting to shareholders in the Henriett Mining and Smelting Company, whose prospectus was published in the Mining Journal of Sept. 30, inasmuch as the particulars are given incidentally in the Leadhill Democrat of Oct. 14 in a report connected with the Morning Star Consolidation, a neighbouring enterprise, and may therefore be regarded as quite disinterested so far as the Henriett is concerned. The writer says that descent into the mine (Morning Star) was made by the old Lower Waterloo shaft, which, at a depth of 70 ft., encountered the first seam of ore. From the at a depth of 70 ft., encountered the first seam of ore. From the foot of the old Waterloo shaft a drift connects with new shaft a short distance farther north. Around this shaft, known as the new Waterloo shaft, numerous large stopes of ore are disclosed. From an area north and west of shaft, to the Henriett line on the north, fine faces of ore are exposed on every hand. Just north of the new Lower Waterloo shaft, is the Harker shaft of the Henriett Mino, body must be located above, especially as several shafts directly over these workings show ore at a depth less than 100 ft. This apper ore body, to all appearances, is one in which the main stopes and mineral resources of the East or Upper Waterloo, and the main shafts of the Evening and Morning Star Mines draw their resources. Contact and mineral vein of the Evening and Morning Star Mines has been opened from its outcrop enstward for 1500 ft. and over. The vein of the Lower Waterloo and Henriett Mines has been explored for 600 or 700 ft., which carries developments 200 ft. eastward and beneath the outcrop of upper vein. Possibilities of a fault are, therefore entirely precluded, and nothing short of a complete fold in limestone could re-establish levels of the two veins, and explode the otherwise irreconcilable evidence of two disveins, and explode the otherwise irreconcilable evidence of two distinct veins, one situated several hundred feet below the other, and having a one-third greater pitch than the other. Henriett is now sinkstill requires 150 ft. additional depth to connect with the risk vein of ore, and still requires 150 ft. additional depth to connect with the pre body and incline from the Harker shaft, which developes Lower Waterloo and Henriett ore vein.

They have now begun a new shaft at Morning Star, which will pars through the first vein at about 140 ft., and is calculated to cut vein opened by Waterloo incline, 200 ft. east of the breast of the incline and at a vertical depth of 400 ft. below the surface. If ore vein opened in the Lower Waterloo workings is disclosed here in un-

diminished strength and grade, it will be a safe undertaking to sink diminished strength and grade, it will be a safe undertaking to sink the Upper Waterloo, Upper Henriett and other shafts still further to the east to a depth of 1000 to 1200 ft. in search of the lower horizon of pay ore. Formation the lower ore vein below is lime, and above it it is a "bird's eye" or intrusive porphyry. The property shows a great deal of fine lead smelting ore. Inclines were driven on the ore bodies, and cross-cuts run every 60 feet, blocking off the entire ore resources and showing them up in fine style and to good advantage. In no part of the Henriett vein has the lime been reached, there is every prospect of other veins of pay ore being encountered in the porphyry any time until the solid lime is met with.

SECONDARY BATTERIES.

The use of carbon in conjunction with lead or compounds of lead for the electrodes of secondary batteries has been patented by Mr. Desmond G. Fitz-Gerald, of Brixton, who constructs plates of carbon with perforations, grooves, or recesses, which are filled with lead, preferably in a state of fine division, or with any suitable compound of lead. The pores of the carbon also are filled with the same material, which in this case may more advantageously be produced by the decomposition of a salt or of an oxide of lead. Or he places the divided lead or the compound of lead within a tube or vessel of carbon, within which the compound of lead may in certain cases be heated. Such carbon tube may be perforated either in the first place, or after certain operations have been performed upon its contents. Or he employs the carbon in the form of fragments, which should be in direct contact with each other at one or more points, whilst the interstices between the fragments are filled with which should be in direct contact with each other at one or more points, whilst the interstices between the fragments are filled with lead in a state of division, or with certain compounds of lead alone or in admixture with other bodies. The carbon fragments may be placed within a tube or vessel of carbon or lead perforated as aforesaid. In certain cases such fragments may be coated with lead by electrolytic deposition or otherwise. When one side of a plate of carbon is intended to constitute an anode and the opposite side a cathode, he prefers to construct the carbon plate in a compound form, i.e., he cements two plates of carbon together in such a manner as effectually to prevent any electrolytic communication between the two sides of the compound plates. Such compound plates are used to divide a trough into cells as is well understood.

Some improvements in secondary batteries or accumulators have also been patented by Mr. JAMES PITKIN, of Clerkenwell, the object of his invention being to enable a greater amount of energy to be

Some Improvements in secondary batteries or accumulators have also been patented by Mr. James Pitkin, of Clerkenwell, the object of his invention being to enable a greater amount of energy to be stored in, and consequently a greater quantity of electricity to be furnished by electrodes of given dimensions, and at same time to greatly decrease the weight of the electrodes as compared with that of those formed of plates of lead as usually employed in batteries of this description. He forms the electrodes of a mass of very thin turnings or shavings of lead or strips, shreds, or pieces of lead foil or highly laminated sheets of lead in a crumpled condition packed in suitable open frames preferably of wood or ebonite, and each having a covering of felt, flannel, or other suitable porous material stretched over it on each side to retain the lead in place and allow it to be acted on by the acidulated liquid in which the electrode is immersed. The electrode thus constituted is connected with the terminals or connecting strips used for joining up the electrodes to form a battery by means of a rod of lead, one end of which is flattened and divided into a number of narrow leading strips or branches which are distributed uniformly through the mass of the electrode. When an electric current from any source is passed through two such elements connected together and immersed in acidulated water in the usual way, the one element becomes peroxidised, and when the direction of the current is reversed the other element becomes peroxidised, and the first one becomes reduced to the state of spongy metallic lead.

Another invention for the construction of secondary or storage

metallic lead.

Another invention for the construction of secondary or storage batteries has been patented by Messrs. Grout and Jones, of Hornsey. According to the first part of their invention they take flour, starch, or meal of any kind, and with or without other vegetable or carbonaceous substances reduced to a powder and intimately mix it or them with the oxide or a salt of lead, or the oxide or salt of any other suitable metal, and add a sufficient quantity of water, syrup, oil, or other liquid to make it into a plastic mass capable of being moulded into any desired form; the moulded material can be dried or not before placing into a suitable closed vessel surrounded with powdered carbon, sand, or any other substance capable of preventing direct contact with the atmosphere. They then expose the whole to a gentle red heat for sufficient time to carbonise the organic matter with which the oxide or salt of the metal is combined, and reduce the oxide or salt to the metallic state within the the organic matter with which the oxide or salt of the metal is combined, and reduce the oxide or salt to the metallic state within the pores of the carbon or charcoal, and thus obtain a very large and efficient surface for chemical action. In constructing some of the elements, and when lead is used, it is sometimes advantageous to take minium or red oxide of lead and combine it with a suitable proportion of flour and water or syrup to make a comparatively thick paste, and with a brush or spreader apply it to the surface of paper, canvas, or other material capable of being carbonised, and rolling or folding it into any desired shape before burning. When the moulded blocks or plates of whatever shape are prepared, and before burning they can have rods or slips of lead or other suitable metal inserted into the plastic material, these rods or slips being very convenient to solder the terminals or connecting wires to. If a rod convenient to solder the terminals or connecting wires to. If a rod or slip of lead be used the moulded carbon must be kept upright while being burned and remain so until cold. It will then become while being burned and remain so until cold. It will then become firmly attached to the metalised carbon. If the moulded block or plate is required to be of a very porous nature, the combined meal and oslide may be mixed with barm or yeast and fermented after the manner of bread and then baked and carbonised. By these means the metalised carbon becomes of a very 10 ro us and spongy nature. For some purposes they find it advantageous in the construction of these elements to employ the metalised carbon in the powdered state to surround the metal blade or other conductor. The powder for this purpose can be very conveniently prepared by adding the salt or oxide of the desired metal to powdered charcoal and exposing it in a suitably closed vessel to a reducing heat; or the oxide or salt may be added to sawdust, starch, meal, paper-pulp, or any analogous substance capable of being carbonised and of reducing the oxide or salt of the metal operated upon. The metalised carbon has such great power to rapidly absorb many times its own bulk of oxygen or other gas or gases that in certain proportions of carbon and reduced metal, when freshly burned and dry, it will spontaneously ignite if exposed to the atmosphere.

For the construction of the elements according to the second part of their invention, they take lead, in the sheet or other form, or a block or plate of carbon and reduced regards with the form a conductor, and head or plate of carbon and the part of the construction of the elements according to the second part of their invention, they take lead, in the sheet or other form, or a block or plate of carbon with the form of the part of the part of the place of plate of carbon with the form of the place of plate of carbon and the part of the plate of carbon with the form of the place of plate of carbon with the form of the planer of the plate of carbon with the form of the planer of the planer

of their invention, they take lead, in the sheet or other form, or a block or plate of carbon suitable for a conductor, and heap or pile round it, or compress upon it, lead mechanically reduced to a dusty or granular state, whereby there is an enormous surface exp or granular state, whereby there is an enormous surface exposed to action, and the lead dust also much more easily oxidised or "formed" than any other arrangement of the Planté secondary battery, taking only a comparatively few charges to bring it up to an efficient or working state. In the preparation of the lead dust they find it very convenient to take lead while in the molten state and add to it a convenient to take lead while in the molten state and add to it a
proportion of any powdered substance, such as charcoal, then keep
stirring or triturating it while cooling. It first becomes pasty, and
afterwards, as it cools, it passes by continual stirring into a fine
metallic dust suitable for the purpose described. If necessary the
charcoal can be separated from the lead dust by washing.

The inventors mention that in the application of the first improvement to the construction of secondary batteries they are aware
that Dr. Siemens and others have experimented on the combination

That Dr. Siemens and others have experimented on the combination of carbon and metals (notably lead) by immersing blocks of charcoal or carbon in acetate or other salts of lead, and reducing them to the metallic state in the pores of the carbon by exposing them to a red heat in a covered vessel; but the amount of metal that the carbon could by this method combine with was limited, and that principally on the surface. Their improvement consists—first, in combining a metallic oxide or salt equally within the mass of the carbonaceous substance before burning, and in any pre-arranged projection; and, secondly, in enabling us to make it plastic for moulding into any suitable form required; and in the application of

the second improvement they claim the employment of lead dust prepared direct from the molten metal in the manner described.

PNEUMATIC PRESSURE AS MOTIVE-POWER.

The objects of the invention of Mr. GEO. V. SHEFFIELD, of New York, are to produce and maintain a vacuum in suitable vessels connected by means of pipes with a motor situated at any desired distance from the vessels, in such a manner that the motor may be distance from the vessels, in such a manner that the motor may be operated by atmospheric pressure; also to provide a motor of special construction for utilising such pressure. He provides storage tanks from which the atmospheric air is exhausted by means of suitable air-pumps driven by any fixed power, such as a steam-engine or a water or wind-mill, and pipes connecting these pumping-engines with the said storage-tanks which pipes may be of any desired length, as for instance, the pumping apparatus, may be at Niagara Falls, and the storage tank in New York. From these storage tanks service-pipes will lead to the engine or motor where the power thus generated and stored is to be used. The air pump or exhauster by which the air is exhausted from the tank or tanks may be any suitable air-pump, either rotary or reciprocating, and it may be driven by generated and stored is to be used. The air pump or exhauster by which the air is exhausted from the tank or tanks may be any suitable air-pump, either rotary or reciprocating, and it may be driven by any suitable power, but his purpose is to economise the cost of producing this vacuum by operating the pump or exhauster on a large scale so as to produce the power at the least possible expense per horse-power or by placing the said pump in some locality where natural forces such as wind or water power may be utilised. The storage tanks are preferably constructed in cylindrical form, so as to secure the greatest economy of construction combined with the most absolute freedom from loss by leakage. They may be placed above or below the ground, but it will probably be preferable to settle them in the ground, thereby securing stability without expensive foundations. They may be made of cast-iron. These tanks or reservoirs will be attached to the pump by a pipe.

The service-pipe leads from the tank to the reservoir, and may be for a single motor, or a large or main pipe with several branches leading to several motors. The latter mode of construction is the preferable one, as it is intended to erect large works, to place the motors of different persons in connection therewith. A motor made according to his invention, and which may be advantageously used, consists chiefly of a cylinder, a rotary piston, and a valve. The atmospheric air enters the said cylinder through the opening of the valve, and striking one of the wings of the piston carries it around until the pipe leading from the tank is reached, when the air thus introduced through the valve will escape into the said pipe, and through it into the vacuum tanks, and then another portion of air will be passing through the open part of the valve, and acting on the other of the wings of the piston until the escape is reached, and

will be passing through the open part of the valve, and acting on the other of the wings of the piston until the escape is reached, and so on, the operation of the motor will be repeated and continued. It is obvious that this method of utilising a vacuum may be easily applied to any suitable motor, equivalent to that above described, whether the rector has return to receive the rector. whether the motor be rotary or reciprocating, so long as the vacuum is utilised in combination with the normal atmospheric pressure on the other side of the piston to propel the piston forward. It is not necessary that the vacuum in the tank or tanks should be perfect, a partial vacuum being all that is required.

SEPARATING TIN FROM TIN-PLATE SCRAP, &c.

When it is desired to recover the metals which compose tin-plate When it is desired to recover the metals which compose tin-plate it is necessary not only to separate them, but to do so in such a manner that the tin is completely removed from the iron, and that on the other hand no iron salts are found mixed with the tin salts. In the process which is employed by Mr. LOUIS BOURAU, of Paris, a cylinder made of oak is placed on two supports. This cylinder has a door which closes hermetically by means of a pressure screw. The tin-plate to be treated is introduced into this cylinder, wherein is placed a quantity of chloride of tin, that is to say, hydrochloric acid. placed a quantity of chloride of tin, that is to say, hydrochloric acid saturated with almost sufficient to fill the cylinder, then a quantity of hydrochloric acid is added sufficient to convert the tin under operation into chloride of tin, the acid being slightly in excess lentiform vessel where steam arrives permits the liquid to be heated during the operation.

during the operation.

During the working the cylinder has a rotary movement which shakes the metal on which the acid operates. When all the tin has been dissolved the chloride of tin is allowed to run off through a tap placed on the cylinder, for which care must be taken in turning properly into a reservoir placed below the cylinder. Then the cylinder is turned in such a way that the door is below which door is then opened, and all the iron resulting from the operation falls into a vessel or cart which is placed underneath the cylinder, which said cart or vessel then empties itself into a bath which contains an alkaline substance or pure water forming a sort of Irish river. This bath carries at its bottom an endless cloth, which slowly carries off the metal outwardly which falls into a cart or vessel placed at the extremity of this bath, and when said cart is full it is replaced by another, and so on. The chloride of tin thus formed may be treated another, and so on. The chloride of tin thus formed may be treated by water in excess in such a manner as to transform it into oxy-chloride, which, after convenient filtration and treatment by the usual process, is mixed with charcoal, and gives by fusion chemically pure tin. The chloride of tin may also be treated by zinc and converted into chloride of zinc. The tin then put at liberty in the chloride zinc is collected and freed, either by heat or by energetic pressure, from the acid which it is mixed with, then it is meited in a convenient oven. It can afterwards be cast in moulds for the

The iron resulting from the operation is brittle and valueless, thus it ought only to be employed to make sulphides under the treatment by sulphuric acid. The apparatus is constructed as follows:—A cylinder is provided made of wood or copper mounted on two pivots of large enough diameter, said pivots being hollow, and communicating with the interior of the cylinder. This said cylinder is provided with a door along the whole of its length, which is kept closed by means of a pressure screw carried on a piece of wood or metal or any hard substance, said screw pressing firmly on a band of thick copper, thereby assuring the perfect closing of the door, said door working on an indiarubber hinge, which serves to keep the apparatus steam tight. On one side of said cylinder is provided a pipe in connection with the heating apparatus, said tube terminating in a copper piece perfectly polished, and is supported against a projecting piece set completely up to the right hand pivot. A spiral spring serves to assure the perfect contact of the said collar and projecting piece. The pivot on the right hand side of the cylinder carries a tube which is in communication with a lentiform vessel placed at the end. The rotation of the cylinder will not prevent the perfect communication of the steam.

On the other side is a second pipe which is terminated in a similar. The iron resulting from the operation is brittle and valueless, thus

of the steam.

On the other side is a second pipe, which is terminated in a similar manner to the first mentioned pipe by a collar piece, which comes in contact with another collar piece by means of a spiral spring. Another pipe is fixed in the left hand pivot. It is set vertically, and is always in place at the top of the cylinder. The aforesaid second pipe carries three branches, each provided with a cock—the first branch ought to be open during the whole operation to allow of the escape of the gases and oxide vapours. A suitable retort receives these vapours, and separates the acid therefrom by condensation—the second branch serves for the introduction of the chloride of tin or the hydrochloric acid—and the third serves for the washing if it is desired in the cylinder directly; either an alkaline liquid or pure water being introduced by this branch. A tap is fixed on the cylinder for emptying the liquids therefrom. ntact with another collar piece by means of a spiral spring for emptying the liquids therefrom.

an inclination of 10 per cent. As soon as the operation is terminated in one of the vats the boiling liquid is drawn into the other, which has been previously filled with the ore. While the solution is going on there, which requires about two hours, the first vat is emptied and recharged; hence there is no interraption in the work and the bath is never cooled. A single fire is sufficient for the two vats, the heat is never cooled. A single fire is sufficient for the two vats, the heat being turned alternately from one to the other. This process presents the following advantages:—1. A cheap extraction of the sulphur, the cost being only about \$1 per ton; 2. Great purity, analysis showing only 1-20th of 1 per cent. of earthy residue and no trace of sulphurous or sulphuric acid; 3. Possibility of operating during the whole year, since there is no production of sulphurous acid, which is so injurious to the public health and to agriculture.—Comptes Rendus.

WATSON BROTHERS' MINING CIRCULAR.

WATSON BROTHERS, MINEOWNERS STOCK AND SHARE DEALERS, &c 1, ST MICHAELS ALLEY CORNHILL, LONDON

Nearly twenty years ago the weekly information which had previously been published for a great number of years in Watson Brothers' Mining Circular was transferred to the columns of the Mining Journal, with the following announcement.

In the year 1843, when mining was almost unknown to the general public attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. Watson, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," 'Cornish Notes" (first series, 1862), "Cornish Notes" (second series, 1863), "The Progress of Mining," with Statistics of the Mining Interest, published annually in the Mining Journal for 21 years, &c., &c. In the Compendium, published in 1843, Mr. Watson was the first to recommend the system of a "division of small risks in several mines, ensuring the success in the aggregate," and Messrs. Watson Brothers have always a selected list on hand. Ferhaps at no former period in the annuals of mining has there been more peculiar need of honest and experienced advice in regard to mines and sharedealing than there is at present; and from the lengthened experience of Messrs. Watson Brothers they are emboldened to offer, thus publicly, their best services and advice to all connected with mines and mining.

Messrs. Watson Brothers are daily asked their opinion of particular mines, as well as to recommend mines to the best of their judgment and ability, founded on the best practical advice they can obtain from the mining districts, but they will not be held responsible, nor subject to blame, if results do not always equal the expectations they may have held out in a property so fluctuating as mining.

The great extension of mining business, the difficulty so often complained of

always equal the expectations they may have neutous ma property so intertaking as mining.

The great extension of mining business, the difficulty so often complained of by country shareholders in getting accurate and disinterested information as to the state of Cornish and Foreign Mines, and of the financial and real position of mining companies generally, have induced Messrs. Warson Brothests to make their Circular now published in the Mining Journal more extensively known, and

their Circular now published in the Mining Journal more extensively known, and to state—

That they issue daily to clients and others who apply for it a Price List (as supplied to most of the London and country papers), giving the closing prices of mining Shares up to Four o'clock.

They also buy and sell shares for immediate cash, for the usual fortnightly settlement in all Mines dealt in on the Mining and Stock Exchanges, at the close market prices of the day, free of all charge for commission. They deal also, on the same terms, in the Public Funds, Railways, Telegraphs, and all other Securities dealt in on the Stock Exchange.

Having agents in all the mining districts, they are constantly getting mines inspected for their own guidance, and will also obtain special reports of any particular mine for their clients, for the inspecting agent's fee of £2 2s.

Messrs. WATSON BROTHERS take this opportunity of stating that on July 1 they took into partnership Mr. H. J. DEAN, who has been for a number of years associated with the firm, and Mr. W. H. H. WATSON, who has had some years experience of practical mining and engineering in Cornwall, and is the son of the senior partner. The firm will still be called that of "Watson Brothers."

The number of weekly communications received from almost every part of the world in regard to remarks in this Circular indicate so plainly how much hey are read (and, we trust, appreciated) that they will be continued by the same writer.

Indeed, while new blood is introduced to attend to the more laborious and

same writer.

Indeed, while new blood is introduced to attend to the more laborious and mechanical details of the business, the old will have more time to devote to their different departments.

The accounts referred to may be correct, but are not clear, for it seems absurd to bring down a *debt* as an *asset*. After enumerating the liabilities on one side the first item under the head of assets the debit is called—"Balance brought down 2390l. 1s. 1d." This should have been at the bottom of the list as a balance against the mine, being in fact not an asset, but the balance of liabilities over the

It is not in "mortals to command success" in anything, much less in mining, the most uncertain, as at times the most profitable of all pursuits. It is for this reason we deprecate "1.—Speculating for the account," buying in fact for a mere rise or fall in the market, and not for any permanent speculation in the mine itself. 2.—Speculating in mines with money you cannot afford to lose. 3.—Confining speculation to one mine. A division of risk upon the principle of insurance at Lloyds is the safest plan. Take five or six well selected mines, buy a few in each, pay for them, and hold on for certain points to come off, but have nothing to do but "time bargains," or buying for accounts. Very often in these cases you may be compelled to close just when success is about to dawn. It is not in "mortals to command success" in anything, much

There is a saying that at times few things are more deceptive than figures, except facts; and those who have been relying too much on statistics, which some time ago showed that tin must, or ought to, rise, have been sadly out in their calculations; but few expected such a serious fall as that we have experienced within the last fortnight; that the smelters would take advantage of it by constantly reducing the standard for ore is only what we might expect. Big mines will have to reduce their expenses and their profits for a time; but we hope we shall never see again—though there are symptoms of it—that which disgraced mining when tin was low before—heavy debts allowed to accumulate, enabling one set of shareholders to get out of their shares, and leaving others to pay their liabilities. It should be insisted upon that at every meeting an adverse balance should be met by a call.

The floods of late have sail interfered with surface works at many wince in Cornwall as well as in Walss—some have also been flooded.

mines in Cornwall as well as in Wales—some have also been flooded at the bottom levels.

There is no particular change at any of the mines this week. Prince

of Wales have dropped considerably, and owing, we suppose, to the notice of meeting and the call that may be required. The mine is gradually improving in prospects and in returns, and we hope it will not be long before the necessity for calls may cease to exist.

The lode in the shaft at Great West Chiverton is 3 ft. wide, with mundic and good stones of lead in it.

The stamps at East Blue Hills are now fairly at work, and we understand the tin this month will pay costs, and next month leave a good profit. Some months ago the tin ore discovered was valued by an independent agent at 60001. None of this has been taken away, and a good deal more has since been laid open. We hope, therefore, for good returns in future. All the earlier tin sales were from horaved stamps and requiring and exception the present has from borrowed stamps, and repairing and erecting the present has taken a longer time than we expected.

MULBERRY TINWORKS .- The present company has evidently MILBERRY TINWORES.—The present company has evidently applied itself with energy to the development of this property, since the manager reports this week that the whole of the 108 heads of stamps, driven by water-power, and the plant attached, had been put in through working order and were now doing their work well; that the tinstuff from the new bottom level was giving about 50 per cent. more produce per ton than that from the upper level. The directors have gone carefully through the accounts and decided to declare an interim dividend of 10 per cent. per annum for the quarter ending Sept. 30. The working profit would, it is said, allow of a larger dividend; but it was deemed prudent to reserve the excess. It was stated that the engine to drive 76 heads of stamps was to set to work about five weeks ago with the first 32 heads, and that another almos the gl impro rubbe an out of the movin same, rubbe fibrou when able both s

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The directors are laying down plenty of machinery, as their tin ore is in sight to almost any extent, and has not to be sought for, and there are no heavy working charges on the property.

ELASTIC TUBULAR PISTON PACKING.

To obtain a tight joint with a self lubricative packing, working almost without friction, and requiring but little compression by the gland to keep it tight, Messrs. Chapman and Harper, of the Irwell Rubber Works, Billiter-street, have just introduced some improvements in their hollow packing. They form an indiarubber tabe of suitable section, and over the interior of it they form an outer casing of canvas or other suitable woven fibrous material of the desired degree of coarseness, to come in contact with the moving part, which may consist of one or more thicknesses of the same, and may be secured or cured together by the use of indiarubber solution, or applied to the tube before curing so as to obtain a similar result, and in some cases they may form the outer fibrous tube on the internal tube without any intermediate canvas or other fibrous covering by what is known as "overspinning," or weaving, the same in a similar manner to that in which whip sticks are covered. When the covered tube is formed they punch perforations of suitable dimensions at right angles or nearly so to each other along the centre line of the length of the tube, extending completely through both sides of the covered tube, or otherwise conveniently placed to ensure affording thereby access to the interior otherwise than at the ends, in order that when the same is in the stuffing-box the water from the condensed steam and the lubricant, where such is used, may fill or gain access to the interior, and so form a source of supply during the working, and be drawn or caused to flow out by the motion of the moving part which it encircles. They sometimes make the perforations before they put in the last overspinning and fibrous cover so as to prevent the covering coming to pieces. In practice they close the open ends of the tube when cut to the required length for filling the stuffing-box, either at the top end, the bottom end, or both, by means of suitably formed caps or covers, which may be made of fibrous material woven or plated and coated w To obtain a tight joint with a self lubricative packing, working

rubber, or the same may be formed of rubber of a suitable quality and thickness without any fibrous material, and be applied at and over the end with a sufficient length of the part which goes over the same to ensure its not slipping off, and when preferred it or they may be secured on the packing with cord or wire.

When this packing is placed in the stuffing-box, and bears against the side and bottom of the same, and against the moving part which it encircles, it will be sufficiently supported to prevent the pressure of the gland from closing the sides, and so leave the interior, hollow, to act as a reservoir, into and from which the condensed steam and lubricant, where such is used, will pass by means of the holes, perforations, or apertures hereinbefore described, and so enable a tight joint to be maintained with less pressure on the gland, and consequently reduce the friction so generally encountered enable a tight joint to be maintained with less pressure on the gland, and consequently reduce the friction so generally encountered where the ordinary solid packing is used. In some cases it will be found beneficial to insert in the interior of the larger pieces of tubular packing before inserting them in the stuffing-box a suitable length of smaller tube, which may be a length of the smaller diameter of the same packing, in order to assist in keeping the interior open, and in some cases gasket may be sin liarly employed. It is pointed out that this packing has every promise of greater durability, from the fact that after a certain time of use it may be removed, and by being replaced with a quarter of a turn round on its axis given to it a fresh wearing face or surface is exposed to the action of the moving part, thus as it can be turned three times without bringing the first surface into contact with the moving part, it is fair to assume that it would last a longer time without requiring to be replaced by new than any of ithe packings ordinarily used for the purpose. It will also be found to be easily applied to and removed from the stuffing-boxes, as it will not want to be forced in with a very great pressure, nor get set solid. very great pressure, nor get set solid.

WATER AND ITS TEACHINGS.

WATER AND ITS TEACHINGS.

The opinions of authors are usually much less valuable than their facts, especially when the subject treated of is wide in its scope, or when pains have been taken to bring together all available data for the benefit of his readers. Fully recognising this, Mr. C. LLOYD MOBGAN, F.G.S., A.R.S. M., lecturer at the Diocesan College, Rondebosch, Cape Town, has, in his Water and its Teachings in Chemistry, Physics, and Physiography—London: Edward Stanford, Charing Cross—given a well selected series of 1719 useful notes, carefully arranged and free from comment of any kind, so that each student is enabled to interpret the teachings for himself. The notes are arranged under 50 different heads, and some of these are again subdivided in order to carry the classification to the furthest useful limit. Taking the heading Glaciers, for example, the notes are separated according as they refer to the conversion of snow into ice, to the flow of glaciers, to the explanation of glacier motion, to crevasses, to morames, or to the signs of ancient ice actions. So with reference to Steam and Volcanic Action, the notes are arranged as they relate to volcanic cruptions, volcanic cones, the effect of volreference to Steam and Volcanic Action, the notes are arranged as they relate to volcanic eruptions, volcanic cones, the effect of volcanoes on scenery, or the general history of a volcanic district. Again, the Winds are treated of in a different series of notes according as the exact matter considered is—the areas of high and low pressure, the trade winds and their easting, cyclones and anticyclones, or the effects of the winds. In the same way, the building of the rocks, the alteration of the rocks, the upheaval of the rocks, mountain ranges, the carving of the continent, denudation, are separated in the section devoted to the Formation of Continents and Mountain Chains. The Water and Light section includes the de-Mountain Chains. The Water and Light section includes the description of light, reflection, colour, refraction, dispersion, the rain-bow, calorescence and fluorescence, and differential scattering. And in considering the Influence of Water on Climate, according as that

in considering the Influence of Water on Climate, according as that influence arises from its high specific gravity, through the power possessed by its vapour of absorbing heat, by its latent heat, through ocean currents or geological climate.

To seismologists the chapter on steam and volcanic action will be of special interest, and some of the notes reproduced are sufficiently startling to receive attention. Cotopaxi, in the Andes, is said to have hurled a block of 200 tons weight to a distance of nine miles; and in the subsection giving the general history of a volcanic district many useful hints are given to facilitate the prediction of the approach of volcanic action. With regard to the formation of continents and mountain chains, Mr. C. Lloyd Morgan arranges his notes so as, in the first instance, to trace the birth of a continent and the formation of its backbone—a mountain range. He notes that wind and rain, and rivers, glaciers, and the waves of the sea are continually now, and have been continually in the past, wearing away the rocks and redistributing the products of waste at lower levels, this waste being built up again by mechanical, chemical, and levels, this waste being built up again by mechanical, chemical, and vital agency. Every note gives evidence of having been well considered and carefully, and the volume will doubtless be widely appreciated by geological and other natural history students.

Wheal Peevon.—At the meeting on Nov. 2 (Mr. Thos. Pryor in the chair), the accounts showed a loss on the four months' working of 18751. 8s. 1d., and a total debit balance of 23901. 1s. 1d. A call of 10s. per share was made. The agents, Capts. White and King, of 10s. per share was made. The agents, Capts. White and King, after reporting upon the various points of operation, state that since the last meeting they had been costeaning for Great North Downs copper lode, but had not as yet found it, although they were expecting to do so daily. The productive qualities of this lode in Great North Downs and in the mines west of them were well known, and they saw no reason why it should not be found productive in Wheal Peevor as well. It passed through the whole length of their sett, and had not yet been seen within their limits. They were very sorry indeed that they could not meet the adventurers with better results that day, but as could be seen by the report, they had several points which they considered, when reached, would again enable them to increase the returns and improve their position. With reference to the financial condition of the mine, the Chairman remarked that it was a long time since they had the question of a call introduced there, and he was very sorry indeed to have to do so that day. But they had always gone on the principle of making a call to meet any loss that might be incurred, and had always divided any profits, and there was no reason why they should depart from that course. It was five years and a half since they began to pay dividends there, and in that time they had divided 26,025L, or 8L 13s. 8d. per share, LIST OF SMELTING, METAL EXTRACTION, ARSENIC, A D BARYTES COMPANIES IN THE UNITED KINGDOM.

TIN.
Thomas Bolitho and Sons, Chyandour, Cornwall.
Williams, Harvey, and Company, Trethellan and Mellanear, Cornwall.
Daubuz and Company, Cavedras and Trelowoth, Cornwall.
R. R. Michell and Company, Tereife, Penzance Cornwall.
Bissoe Bridge Company, Bissoe, near Truro, Cornwall.
Redruth Tin Smelting Company, Redruth Cornwall.
Calenick Tin Smelting Company, Calenick, Cornwall.
Charlestown Tin Smelting Company, Charlestown, St. Austell,
Penpoll Tin Company, Redruth.

Redruth 'in Smelting Company, Calenick, Cornwall.
Calenick 'In Smelting Company, Calenick, Cornwall.
Charlestown Tin Smelting Company, Charlestown, St. Austell.
Penpoli Tin Company, Redruth.

Vivian and Sons, Hafod, Swansea.
Pascoe Grenfell and Sons, Middle Bank, Swansea.
Nevill, Druce, and Company, Ishaelly.
Williams, Foster, and Company, Swansea.
Mason and Elkington, Pembrey.
Copper Miners' Company, Aberavoz.
Charles Lambert and Company, Port Tennant, Swansea.
The British and Foreign Copper Company, Liverpool and St. Helen's.
Landore Copper Company, Landore, near Swansea.
Newton, Keates, and Company, St. Helen's.
Baxter and Company, St. Helen's.
Bibby, Sons, and Company, St. Helen's.
Bibby, Sons, and Company, St. Helen's.
Bibby, Sons, and Company, St. Helen's.
James Keys and Son, Whiston Works, Cheadle, Staffordshire.
Cape Copper Company, Swansea.
Ravenhead Copper Company, Liverpool.
Pontifex and Wood, Garratt Copper Mills, Surrey.
LEAD.
Bewick and Partners (Limited), Hebburn, Newcastle-on-Tyne,
Nevill, Druce, and Company, Linaelly.
Runcorn Smelting Company, Runcorn.
The Panther Lead Works, Bristol.
Blackworth Lead Works, Bristol.
Cokeson and Sons, Swansea.
Entheven and Sons, Gendeninster Works, Bristol.
Cookson and Company, Howden, Newcastle-on-Tyne,
Lecke, Blackett, and Company, Linaelly.
Vivian and Sons, Swansea.
Entheven and Sons, London.
Locke, Lancaster, and Company, London.
Pontifex and Wood, Farringdon Works, London.
Locke Jancaster, and Company, St. Helen's.
Adam Eyton, Lilanerchymor, Holywell.
The Cambrian White Lead Company, Brymbo, near Warrington.
White Rock Works, Swansea.
Entheven and Sons, Swansea.
Entheven and Sons, Swansea.
Entheven and Company, Midnes Lead Works, near Warrington.
White Rock Works, Swansea.
Entheven and Company, Howden Bridge.
Vivian and Company, Howden Bridge.
Vivian and Company, Greater, Swansea.
Entheven and Company, Howden Bridge.

The Cambrian White Lead Company, Brymbo, near Wrexham.
Joseph Walser, Parker, and Co., Dee Bank, Bagilt, and Newcastle.
Governor and Company,

Pascoe Grenfell and Sons, Upper Bank Spelter Works, Swalises Bagilt Zinc Company.
Vivian and Sons, Swansea.
Kenrick and Son, Wynn Hall, Spelter Works, Ruabon.
Charles Titterton, Phenix Zinc Works, Warrington Junction.
Dillwyn and Company, Swansea.
Joseph Thompson, Spelter Works, Carlisle.
Ryland Brothers, Warrington.
Crown Zinc Company, Swansea.
Villiers Spelter Company, Morriston, Swansea,
Swan and Company, Maryhill, Glasgow.
Swansea Vale Spelter Company (Limited), Swansea.

WHEAL CREBOR-SPECIAL REPORT.

WHEAL CREBOR—SPECIAL REPORT.

The 48 fm. level, east of new shaft, end 12 fms. from cross-out; lode 2 ft. wide, mixed with good ore, spar, mundic, &c.—a promising lode. Lode in back and bottom, for 12 fms. in length, worth from 54, to 251, per fathom. Distance from shaft 30 fms.; price for driving, \$4, per fathom. The 72 fm., east of new shaft. Level driving by two men, at \$4.10, per fathom; imore hands should be employed here. Lode 4 ft. wide, composed of capel, spar, mundic, and spots of orce. \$72 fm. level; a composed of capel, spar, mundic, and spots of orce. \$72 fm. level; composed of capel, spar, mundic, and spots of orce. \$72 fm. level; composed of capel, spar, mundic, and spots of orce. \$72 fm. level; a cross-out is being driven south 7 fms., with 48 fm. level; the value of the mine will be increased immensely. 20 fms. east of new shaft, at the 72 fm. level; a cross-out is being driven south 7 fms., with a view of cutting the south part of the main lode, which is supposed to be standing undiscovered there; the forebreast indicates the lode being near. At the 96 fm. level no driving is in hand; the ground is being stoped by eight men; length of stopes about 15 fms. The stoping is guided by the paying qualities of the ground; the lode is worth from 15.4 to 2%, per fathom. No communication is made with the level above. The 103 fm. level, east of new shaft, has been driven about 100 fms.; end with some appearance of lode in it, fairly defined; ground not unpromising; price for driving, \$6.19, per fathom, the last 69 fms. in an apart of the lode. The stopes on this level, on south part of the lode, worked by four men; lode 5 ft. wide, value 23. per fathom. This lode may be found standing to the south of the level eastward. Stope in the bottom of this level, worked by four men; lode 5 ft. wide, value 23. per fathom. The noise that the south part of the lode, going west of new shaft, has not been explored; we think, however, it should be.

Bottom of 123 fm. level, east of new shaft, has not been explored; the

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Deals in all descriptions of STOCKS and SHARES at close market prices.

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Notice is hereby given, that the directors have DECLARED a DIVIDEND of FIVE SHILLINGS PER SHARE, free of income-

tax, PAYABLE, on the 29th inst. to the shareholders on the books of the company on the 14th inst.

By order, FELIX F. WILSON, Secretary. By order, FELIX F. WILSON, Sec 30, Finsbury-circus, London, E.C., 10th November, 1882.

ounces.

DIVIDEND distributed for each coupon, \$400.
(Signed) A. LICCIONI, President.
(Signed) VICTOR T. GRILLET, Treasurer. (Signed) (Signed)

LA SOCIETE ANONYME DES MINES ET FONDERIES The ORDINARY GENERAL MEETING of the shareholders of the above company will TAKE PLACE in Paris, at the offices of the company, No. 15, Rue de Chatcaudun, on Thursday, the 30th day of November inst., at Three o'elock, P.M., precicely.

Chatcaudun, on Thursday, the 30th day of November 1885, as an extraction precisely.

The qualification to take part in this meeting, is the holding of 20 shares, which must be deposited at the office in Paris, or at the agency in London 10 days before the meeting takes place.

Shareholders may be represented by proxies at the meeting, but no one can be the bearer of a proxy unless he himself is the owner of 20 shares.

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Of the company, comprising the Brandon Walls, Thorney Brow, and Stotafeld
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THE LIQUIDATORS are PREPARED to RECEIVE TENDERS, on or before 20th November proximo, for the GLENROY MINE (in the Isle of Man) and the PLANT and MACHINERY thereon.

The Mine was formerly a portion of the celebrated Great Laxey Company's property, and has yielded lead and blende ores of very rich quality.

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MR. HENRY KING is instructed by the Mortgagees to OFFER BY AUCTION, at the Midland Hotel, New-street, Birmingham, on Thursday, the 16th day of November, 1882, at Two for Three o'clock in the afternoon, subject to conditions of sale (which can be seen at the offices of the vendors' solicitors, after the 1st November) in One Lot, the above

VALUABLE FREEHOLD COLLIERY

In the South Staffordshire and East Worcestershire Coal Field, comprising \$2 A.
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without interruption.

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Ely, Vermont, October 23, 1882.

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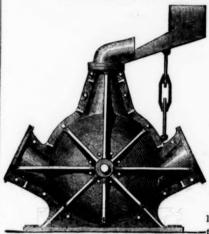
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THE	MINING	SHARE	LIST.
TITE	TITTLITIC	~	23202

	BRITISH DIVIDEND MINES.
Shares.	Paid. Last wk. Clos. pr. Total divs. Per sh. Last pd. Blue Hills t, c, St. Agnes
3200	Blue Hills t, c, St. Agnes 4 6 6. 1½ 34 1½ 0 4 0 0 2 0 May 185 Carn Brea, c, t, Hlogant 9 7 11 10 9 10 52 11 8 0 10 0 Nov. 183 Devon Gt. Consols, c, a, Tavistock*† 1 0 0 6 ½ 5½ 6½ 118 7 0 0 6 0 Dec. 188 Dolcoath, c, t, Camborne 10 14 10 74 67½ 72½ 133 6 3 2 0 0 Cet. 188 East Pool, t, c, tillogan 0 9 9 52½ 49 51 32 15 0 1 0 0 Cet. 188
6000	Carn Brea, c, t, Illogant
4296	Devon Gt. Consols, c, a, Tavistock*† 1 0 0 6½ 5½ €½118 7 0 0 6 0Dec. 188 Dolcoath, c, t, Camborne
6400 1	Bast Pool, t.c. Illogan 0 9 9., 521/2 49 51 32 15 0 1 10 0Oct. 188:
1250C 1	Frongoch, 1. Carden (11000 sn.188. & d U & 1/2 & U T U U & U U
12000	Great Holway, * 1, Plintshire 5 0 0 51/4 5 51/4 0 5 0 0 5 0 Feb. 1833
15000 (Great Laxey, I, Isle of Man*†
90000	Green Hurth, I, Durham*
10240	Gunr, islake (Clitters), t, c
2800 1	Isle of Man, I, Isle of Man* 25 0 0 83 5 0 1 0 0Sept. 1880
6000 1	Isle of Man, I, Isle of Man*
20000]	Leadhills, 4, Lanarkshire
400 1	Lisburne, 2, Cardiganshire 18 15 0
90000	Minimal Co. 1 Washing 5 0 0 9 8 9 69 4 8 0 1 0 Aug 188
20000 1	Mining Co. of Ireland, cl, c, t 7 0 0 24 0 0 0 2 6Jan. 1838 Mona, c, Anglesca 5 0 0 4½ 3½ 4 0 10 0 0 10 0 July 1888 North Hendre, t, Wales 2 10 0 3 18 0 0 4 0 Nov. 1838
8000	Mona, c, Anglesea 5 0 0 41/2 31/2 4 0 10 0 0 10 0July 1880
11829	North Hendre, I, Wales
8146	Ditto
2000 1	North Levant, t, c, St. Just 13 6 0 4 3 4 4 16 0 0 3 0Feb. 188
4760]	Penhalls, t, St. Agness 4 0 0. 124 24 134 3 17 0. 0 1 8 Jan 188 Penhant, t, bar, North Wales 5 0 0. 5 42 5 0 10 0. 0 5 0. Mar. 187 Phoenix United, t, c, Linkinhorne 6 0 3. 324 224 334 17 4 0. 0 2 0 Aug. 188
12000	Pennant, t, bar, North Wales* 5 0 0 5 4½ 5 0 10 0 0 5 0Mar. 187 Phænix United, t, c, Linkinhorne . 6 0 3 3½ 2½ 3½ 17 4 0 0 2 0Aug. 188
18000 1	Phoenix United, t, c, Linkinhorne . 6 0 3 3½ 2½ 3½ 17 4 0 0 2 0Aug. 188: Pr. Patrick, *s-l, (als.12000pf.10 p.c) 1 0 0 018 6 0 2 0July 188:
10000	Red Rock, I, Cardigan 2 0 0 0 4 0 0 2 0Jan. 187
12000	Roman Gravels, I, Salop*
4000 1	Rhydalun, * I, Wales
512	South Caradon, c, St. Cleer 1 1 5 0 45 35 40 749 3 0 1 0 0 July 188
9000	South Condurrow, t, c, Cambornet 6 5 8 9½ 9 9½ 9 9 0 0 6 0 Aug. 188 South Darren, t, Cardigan* 1 16 0 1½ 1 1½ 3 4 0 0 2 0 Apr. 188 South Wheal Frances, t, Illogant* 9 2 4 12 9 10 40 15 6 6 10 July 188
6000	North Hendre, t , Wales 2 10 0 318 0 0 4 0 Nov. 188: Ditto 15 0 0.11 3 0 2 0 Nov. 188: Ditto 2 0 11 3 0 3 0 Nov. 188: North Levant, t , t
6000	Tincroft, c, t, Pool, Illogant 11 10 0 11 734 814 51 3 6 0 5 0 Dec. 1881
15000	Van, I, Llanidloes*
12000 1	West Holway, * l, Flintshire 1 0 0 1½ 1 1½ 3 1 0 0 1 0 Oct. 1881
512	West Tolgus, c, Redruth \$
2400 1	West Wheal Seton, c, Cambornet 15. 0 0 22½17½ 22½111 10 0 0 3 9Apr. 1876 West Basset, c, Illoyan 1
12000 1	West Basset, c, Illogan†
1004 %	Wheal Eliza Consols, t, St., Austell 18 0 0 — 18 20 53 10 0 0 5 0 Aug. 1883
15000 V	West Measet, c, Illogant
6000 Y	Wheal Grenville, t, Camborne 15 0 0 10 8 9 1 12 6 0 5 0 Sept. 1883
4295 Y	Wheal Grenville, t, Camborne 15 0 0 10 8 9 1 12 6 0 5 0 Sept. 188 Wheal Kitty, t, 9 84. Agnes 5 12 0 2 1½ 2 12 18 6 0 1 6Jan. 188 Wheal Peevor, t, Redruth 8 1 0 4 3½ 4 8 13 6 0 4 0Mar. 183
3000 1	
25500	FOREIGN DIVIDEND MINES Alamillos, I, Spain*t
30000	Almada and Tirito Consol., s*† 1 0 0 34 16 34 0 6 3 0 1 0 May 1870
20000	Australian, c, South Australiat 7 7 6 214 214 214 xd 1 7 6 0 2 0Aug. 188
15000 I	Rivdaeve Creek, q. California" 4 0 0 196 196 198 1 1 0 0 3 0June 1883
20000 (Cane Copper Mining. "I South Africa 7 0 0 54 % 54 55 48 7 6 1 0 0 Sept. 1883
50000	
70000 1	English & Australian,*1c, 8. Aust 2 10 0 15 134 156 3 0 9 0 1 0Mar, 1838 EngAus., g, Vict.* pref (20000 0) 1 0 0 15 134 156 3 8 0 3 8 Apr., 1838 Fortuna, I, Bpain*1
25000 1	Eng. Aus., g, Viet.* pref. (20000 o.) 1 0 0 3 4 4 8 2 0 0 1 0 Qct. 1882 Fortuna, f, Spain*†
60000	Frontino & Bolivia, g, New Gran.* 1 2 0 0 2½ 2½ 2½ 0 9 0 0 1 0July 1882
200000	
15000 I	Linares, l, Spain*t 3 0 0 31/2 3 4 19 0 10 0 1 0Oct. 1882
85164 2	Mason & Barry"c, Portugal
66000 1	New Quebrada, c, Venezuelat 5 0 0 5½ 4½ 5 0 9 0 0 3 6Aug. 1882 Ditto, Debentures
3000 4	pregon, g, Oregon, U.S. (pref. sh.) 4 0 0 0 2 6 0 2 6 Dec. 1880
50000 T	New Quebrada, c, Venezuelai
25000 I	Pitangui, g, Brazil (in. 6000 £1 pd). 0 10 0 0 1 0 0 1 0 Sept. 1880
14000 I	Panulcillo, c, Oniti 7
00000 I	Port Phillip, g, Clunes*†(£2 shares) 1 0 0 ¼ ¼ ¼ 1 14 2 0 0 10Feb. 188; Para Fortuna, * s, Argent. Republic. 1 0 0
50000 I	tchmond Consol., s, Nevada*† 5 0 0 834 8 834 14 1 6 0 5 0Nov. 1883
94532 R	tio Tinto, c, Mortgage Bds., Huelva. 100 0 0 101 99 101xd 5 per cent July 1880
25000	
40000 B	Milita Barbara, 9, Brasil Viol.
20000 €	Scottish-Australian Mining Co.*† 1 0 0 2½ 2 2½ 12½ p. centOct. 1883 Ditto, New
80000	Ditto, New
22500 B	Ditto, New 0 10 0. 1½ 1 ½ 1 ½ 0. 12½
40625	it. John del Rey*†(£5 Stock and multiple dealt in) 180 200 5 p.c. for half-year, June 1883
60000 T	'Ambracherry,' g, Wynaad
91896 T	harsis, c, sul, Spain (31100s. 7l.p.) 10 0 0 421/2 41 42 31 6 0 2 10 0 May 188,
20000 T	Cambracherry, g, Wynaad
25000 V	/ictoria* (London), g, Australia 1 0 0 0 13 10 0 0 8Feb. 188
00000 V	Vestern Andes, s, Colombia 5 0 0 0 2 0 0 0 6June 1883 Western Andes, s, Colombia 5 0 0 3 17 6 0 3 0Aug. 1883
2100 V	Vestern Andes, s, Colombia
64800 X	Scottish-Australian Mining Co.* 1 0 0 2½ 2½ 2½ 12½ p. cent Cot. 1885 Ditto, New

	NON-DIVIDEND BRITISH MINES.	-
- 1	Shares. Paid. Last wk. Clos pr 25000 Aberduna,* l, Denbigh	
1	25000 Aberduna,* l, Denbigh	ı
	12000 Anderton, t, c, l, Devonshire 1 0 0 136136 136	
1	12000 Assheton, i, Carnarvonshire* 5 0 0 — 12000 Bedford Unit, *c, Tavis.(£1 liab.) 0 12 0 2½1½ 2	
10	12000 Bedford Unit.,*c, Tavis.(£1 liab.) 0 12 0 2½1½ 2 30000 Bodidris,*l, bl, Denbighshire 1 0 0 7 1½ 30000 British,*s-l, bl, Wrexham 1 0 0 1½ ½ 1½ 30000 Beno Consols,*s-l, Flintshire 1 0 0 2 1½ 2 20000 Bwlch United,*l, Cardigan 0 17 6 1½ ½ 1½ 1½	
2	30000 British,* s-l, bl, Wrexham 1 0 0 11/8 7/8 11/8	l
2	30000 Bodidris,* l, bl, Denbighshire 1 0 0 0 1½ 30000 British,* s-l, bl, Wrexham 1 0 0 1½ ½ 1½ 30000 Beuno Consols,* s-l, Flintshire 1 0 0 2 1½ 2 20000 Bwlch United,* l, Cardigan 0 17 6 1½ 1½ 1½	
2	50000 Carn Camborne, * t, c, Camborne 1 0 0 1½1½ 1½	
2 2	20000 Carnarvon,* c, Carnarvonshire 1 0 0 76 76 76 37500 Carnarvonshire Cons.,* l, Llanrwst. 2 0 0 11411/8 11/4	
0	37500 Carnaryonshire Cons.,**i, Llanrwst. 2 0 0 1½1½ 1½ 6000 Cathedral Cons., c, t, Gwennap 0 18 0	
2	20000 Central Foxdale, *l, Isle of Man	
0 2	2000 Carnarvon,*c, Carangam 0 1 0 1 1 1 1 1 2 2 2 2 2	
2	2450 Cook's Kitchen, t, I flogant	
2 2	4000 Craignant Bach,* l, Cardigan 5 C 0 514 5 614 6400 Crook Burn,* l, Cumberland 0 17 0 12 34 14	ı
2	6400 Crook Burn,* l, Cumberland 0 17 0 1/2 36 1/2	
0	45000 D'Eresby Mountain, <i>l</i> , <i>bl</i> , Llanrwst. 0 10 0 1½ 1 1½ 12000 Derwent, * <i>l</i> , Durham 4 0 0 1½ 1 1½ 53000 Derwent, * <i>l</i> , Twistock	
2	45000 D'Eresby Mountain, l, bl, Llanrwst. 0 10 0 1½ 1 1½ 12000 Derwent.* l, Durham 4 0 0 1½ 1 1½ 134 53000 Devon,* c, bl, Tavistock	
2	53000 Devon,* c, bl. Tavistock	
1	50000 Drakewalls, * t, c Calstock 0 15 0 14 14	
8	10000 Dubby Syke, l, Durham* 1 0 0	
2	12000 East Blue Hills, t, St. Agnes 0 5 0 54 34 56 6000 East Botallack t, St. Just 0 12 6 114 1 14	
0	6000 East Botallack, t, St. Just	
2	4000 East Chiverton, l, Perranzabuloe 10 12 3 1½1½ 1½ 30000 E. Craven Moor. L. Pateley Bridge 1 0 0 ½ ½ ½	
0	10000 Dubby Syke, t, Durham*	
2	30000 East Herodsfoot, s-l, Liskeard 1 0 0 1 4 1	
0	20000 East Long Rake,* l, Wales	
C	25500 East Roman Gravels,* 1, Salop 1 0 3 55 34 34 100 East Tregembo, t, c, Marazion 5 0 0 20 15 20	
2	18000 East Van, I, Llanidloes* 5 0 0	ľ
9	18000 East Van, I, Lianidioes" 5 0 0 2018 East Wheal Lovell, I, Helston 15 13 6 1½ 1 1½ 100000 East Wheal Rose, "s-I, Newlyn East 1 0 0 1¼1½1½/18	
8	100000 East Wheal Rose,* s-l, Newlyn East 1 0 0 1½ 1½ 1½ 1	
2	40000 Glasg. Car.,c*[30000sh. 41 pd., 10000 15s. pd.] 34 1/2 3/4	1
2 2	14000 Glenroy, **-f. Isle of Man	
2	32000 Goginan, * l, Cardiganshire	
2	25006 Goodevere, t , St. Čleer	
2	20000 Great Dyliffe* (10000 sh. issued) 1 0 0	
-	20000 Great Dyliffe* (10000 sh. issued) 1 0 0 — 100000 Great Polgooth United, *t	
2	10000 Gwern-y-Mynydd,* s-l, Flint(pref.) 4 0 0 1½ 1 1½	
6 2	7,000 Gwydyr Amal.* l, bl, Carnarvon 1 0 0	
2	12000 Herodsfoot, <i>l</i> , near Liskeard† 0 18 04s.6s ½ ¾ 18000 Hingston Down, <i>c</i> , Calstock*† 0 13 0 ½ ¾ ½	
2	18000 Hingston Down, c, Calstock*† 0 13 0 76 36 38 20000 Kirkmichael,* l (2000 unissued) 1 0 0	
2 2		
2	15000 Lady Ann,* s-l, Llanarmon 1 0 0	
2 2	15000 Lady Ann.* s-l, Llanarmon 1 0 0 — 34 1/2 30000 Lady Ashburton.* s, Callington 1 0 0 34 1/2 3/2 25000 Langford,* s, c, Callington 0 10 0 34 1/2 3/2	
2	25000 Langford, *s, c, Callington	
2	5120 Lovell, t. Wendron 0 16 0 36 1/4 3/4	
2 2	9000 Marke valley, c, Linkinhornet 1 3 0 17 % 1	
	6000 Medlyn Moor, t, Wendron	
0	15000 Monkstown, man, Devon 2 0 0	
0	20000 Mostyn Consols," s-I, Flint	
0	10000 Mynydd Gorddu, l, Cardigan*	
2	80000 Mounts Bay, c, t, Breage	
2	2400 New Cook's Kitchen, t, Illogan 8 18 0 7 5 7	
2	8000 New Dolcoath, t, c, Oamborne* 3 0 0 — 100000 New Great Wheal Vor, t, Breage 0 10 0 —	
2	100000 New Great Wheal Vor, t, Breage 0 10 0 — 10000 New Holmbush,* t, c, Callington 3 0 0 —	1
2	10000 New Hoth, t, St. Agnes 0 16 0 24214 3 12000 New Penrose,* t, c, Helston 1 0 0 114114 114	
2	12000 New Penrose, * t, c, Helston	-
2 2	17500 New Terras,* t, St. Austell 0 5 0 ¾ ¾ 34	
2	3500 NewTincroft,* t, Lelant	-
2	12000 New West Caradon, c, Liskeard 0 4 6 34 1/2	1
1	3000 New Wheal Peevor, t, Redruth 0 10 0 — 35000 New Wye Valley, l, Montgomery.* 1 0 0 1 ½ 1	1
2	3500 New Wye Valley, I, Montgomery." 1 0 0 1 1/2 1 12000 North Blue Hills, t, St. Agnes	1
2	12000 North Blue Hills, t, St. Agnes	1
2	6144 Mount Carbis, t, c, Redruth 1 10 0 2½, 2½ 2½ 2400 New Cook's Kitchen, t, Illogan 8 18 0 7 5 7 8000 New Dolcoath, t, c, Camborne* 3 0 0 — 1 100000 New Great Wheal Vor, t, Breage 0 10 0 — 6 10000 New Holmbush, *t, c, Callington 3 0 0 — 6 10000 New Holmbush, *t, c, Callington 1 0 0 — 1 10000 New Henrose, *t, c, Helston 1 1 0 0 1½, 1½ 1½ 15000 New Henrose, *t, c, Helston 1 0 0 1½, 1½ 1½ 15000 New Redmoor, *var, Callington 1 5 0 1½, 1½ 1½ 17500 New Terras, *t, St. Austell 0 5 0 ½, ½ 3 17500 New Tincroft, *t, Lelant 6 0 0 — 1 12000 New Henrose, *t, Wendron 1 0 0 1½, 1½ 12000 New West Caradon, c, Liskeard 0 4 6 ½, ½ ½ 12000 New West Caradon, c, Liskeard 0 4 6 ½, ½ ½ 12000 New West Caradon, c, Liskeard 0 10 0 — 1 12000 New West Caradon, c, Liskeard 0 10 0 — 1 12000 New West Caradon, c, Liskeard 0 10 0 — 1 12000 North Blusy, t, Montgomery, *1 0 0 — 1 12000 North Blusy, t, & St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½ ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½, ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½, ½, ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½, ½, ½, ½ 12000 North Blusy, t, c, St. Agnes 0 2 6 ½, ½, ½, ½, ½, ½, ½, ½, ½, ½, ½, ½, ½,	1
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NON-DIVIDEND MINES—continued.
Shares. Prid. Last wk. Clos pp. 6400 North Green Hurth, *(3400 1l. pd.). 0 2 6 34
5400 North Green Hurth, (3400 1l. pd.) 0 2 6 36 37
12000 North Herodsfoot, I, Liskeard 0 12 6 14 18 50000 North Molton, c. mn. 1. Devon 1 0 0 18 18
50000 North Molton, * c, mn, 1, Devon 1 0 0 2 1 6 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6000 North Penstruthal, t, c, Gwennap 2 7 6 1/2 2936 North Treskerby, c, St. Agnes 1 0 0 1/2
8000 Northern,* l, Durham
40000 Okel Tor,* t, c, a, Calstock
80000 Old Shepherds s-l, Cornwall
60000 Owen Vean & Tregur.,**t,c, Marazion 1 0 0 114114 12 12000 Pandora,**t, Carnarvon
45000 Parys Corporation, *c, Anglesea 1 0 0 4 4 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1
7500 Pateley Bridge, l, Yorkshire 1 0 0 2 18 6000 Pedpandra t Redrith
6000 Pedn-an-drea, t, Redruth
12000 Pelyn Wood, c, Lanivery
12000 Pen-yr-Orsedd,* I, Flintshire 1 0 0 1 14
15000 Perran Consols,*s-l
12000 Pelinan-qran, t, Reintah 2 10 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 3
100000 Pioneer, var. Wales
3000 Polerebo, t, Crowan 012 6 1 41 10000 Polerebo, t, Cornwall 1 2 6 4 1 10000 Port Nigel, **s.'. Carnaryonshire 2 0 0 4 4 5
10000 Port Nigel,* s-l, Carnarvonshire 2 0 0
6000 Prince Royal, t, c, s-l, St. Agnes 1 0 6
12000 Prince of Wales, c, s, Calstock 0 17 0 4
15000 Royalton,*f, St. Columb 1 0 0 \$\frac{4}{5}\$ \$\frac{5}{4}\$ \$\frac{1}{5}\$ \$\text{36000 Russell United,*c, Tavistock 0 15 6 \$\frac{3}{5}\$ \$\frac{4}{5}\$ \$\frac{1}{5}\$ \$\text{30000 Silver Hill,* Callington 1 c 0 \$\frac{1}{5}\$ \$\frac{4}{5}\$ \$\frac{4}{5}\$ \$\text{30000 Silver Hill,* Callington 1 c 0 \$\frac{1}{5}\$ \$\frac{4}{5}\$ \$\f
36000 Russell United,* c, Tavistock 0 15 6 34 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
30000 Silver Hill,* Callington 1 C 0 12 3 3 5 5 5 5 5 5 5 5 5 6 5 6 7 6 7 6 7 6 7 6
10
6000 South Carbis, t, c, Redruth
42000 So. Devon Unit.,* c, Buckfastleigh. 1 0 0 1 3 1 5000 South Dolcoath, c, t, Illogan 0 19 0 1 3 1
5000 South Dolcoath, c, c, Hlogan
6000 South Tolcarne, t, c, Camborne 5 11 6 4 5
2043 South Wheal Crofty, c, Illogan 2 17 0 12 1/4 10 12 40000 Tamar, s-l, Bearalston 1 0 0 2 156 16
40000 Tamar, s-l, Bearalston*
110000 Tankerville Gt. Consols, I, Salop*. 1 0 0 178 134 6400 Teesdale, I, Durham (pref.)
2000 Tien Hill,* t, St. Stephens
12000 Trebartha Lemarne, t, Northill 0 1 6 24 2 3
Solution
100000 Tresavean,* t, c,Gwennap
8000 Trevaunance, t, St. Agnes 0 2 0 2424 23
12000 Trevince Consols, t, c, Gwennap 0 5 0
\$5000 Un. Van & Glyn, *l, (& 17500 pref. sh) 1 0 0 1000 Vaughan, *l, Cardiganshire
1000 Vaughan,* l, Cardiganshire
8000 Victor, * I, Clicen, Flintshire
15000 Vincent,* t, Altarnun 1 0 0
20000 Walkham United,* t, c, Tavistock 1 0 0 5/18 3/18 5/18
12000 West Assheton, t, Carnarvon
12000 West Caradon, c, St. Cleer
12000 11 680 010001, 0, 111130001
10240 West Devon Consols, c, Calstock 1 2 0 34 1
10240 West Devon Consols, c, Calstock 1 2 0 34 3 10000 West Godolphin, t, c, Breage 1 1 0 14 14 15 6000 West Kitty, t, St. Agnes
6000 West Kitty, t, St. Agnes 0 12 0 14 12 12 13 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2
3000 West Mary Ann, i, Menheniot 113 0 14 14 2000 W. Pateley Bridge, i, Yorkshire. 1 0 0 2 4 5 5 5 5 5 5 5 5 5 5 6 5 6 5 6 6 6 7 6 7
20000 W. Pateley Bridge, I, Yorkshire 1 0 0 14 14
6000 West Politice, st. Agnes 0 5 6 % 8
5190 West Poldice, St. Day!
2048 West Wheal Frances, t, Illogan 1 33 8 3 1210 1114 3000 West Wheal Peevor, t, Redruth 3 0 6 914 9 915
6000 Wheal Agar, c, Illogan 1
6144 Wheal Basset, c, Illogan
3000 Wheal Boys, t, Redruth 0 18 0 1 4 1 50000 Wheal Castle, t, t, St. Just 1 0 0 14 1 14 1 12000 Wheal Coates, t, St. Agnes 0 4 0 3 4 1 14
50000 Wheal Castle, * c, t, St. Just
12000 Wheal Coates, t, St. Agnes
50000 Wheal Elizabeth, t, Cornwall 1 0 0
12288 Wheal Jane, t, Keal 2 1 6 1/4 1/4 1
50000 Wheal Elizabeth, * t, Cornwall 1 0 0 24 1/4 1/4 1/2 1/2 238 Wheal Jane, t, Keal 2 1 6 6 1/4 1/4 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
25000 Wh. Hony and Trelawny, s-l, Lisk. 2 0 0 3 24 3 12000 Wheal Lusky, t, Callington 0 1 6 14 14 14 14 15 15 16 16 17 17 18
2000 Wheal Cules, t, St. Just 1
2000 Wheal Owles, t, St. Just I
6000 Wheal Sisters, t, Lelant
3000 Wheal Sisters, t. Lelant 310 0. 124. 114. 4038 Wheal Uny, t, c, Redruth 1619 6. 5 4 5 4000 Yawith, T, Cardigan 10 0. 34. 14 14.
bl, blende; c, copper; g, gold; l, lead; s, silver; sl, slate;

s-l, silver-lead; t, tin; z, zinc; i, iron; a, arsenic. *Limited Liability Companies; † quoted on the Stock Exchange I have paid dividends.

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NON-DIVIDEND FOREIGN MINES; FOREIGN AND MISCELLANEOUS STOCKS; TRAMWAYS; INSURANCE COMPANIES; GAS, IRON AND COAL, WAGON COMPANIES, &c.

	NON-DIVIDEND FOREIGN	MIN	ES	NON-DIVIDEND FOREIGN MINES—continued.
44880	Akankoo,* g, Gold Cst.(100000 iss.) Akaglo-African,*d, Kimberley,† Arendal, c, Norway Asia Minor,* s-l, Lidjessy, Bivas	0 12	6 36 56 0 3 5	Shares. Paid. Clos. pr. 34022 San Pedro, *c. Chili
30000 40000 200000 18000	Bratsberg,* c, Norway Brazilian, g,* Brazil British Australian,* g, N. So. Wales Broadway,* g, California	2 0 1 0 1 0 5 0	0 1% 2% 0 0 0 % %	1 00000 South-East Wynand, 9, India 1 0 01 1 1 5000 Taunus, * s-t, c, Germ.(& 100,000 ft.) 1 0 0 1 1 0 0 1 1 0 0 1 0 0 1 1 0 0
130000	Buena Ventura,* I, Spain (Iy.pd) California,* g, Colorado Calido Bis,* g, Venezuela Canada,* g Canadian, c, sul,* Canadat	2 0 1 0 1 0 1 0 4 0	0 1 1½ 0 0 0	200000 Victoria, 9, Venezuela 10 0 1 14 120000 Wentworth, 9, Wynaad 10 0 36 56
23000	Central Jagersfontein Diamond"	5 0 1 0 1 0 1 0 0 15	0 34 134 0 76 136 0 0 36	100000 Wynaad District, *g, India
75000 75000 65000 100000 07363	Chile, *g, Venezuela Chontales, g, *s, Nicar.*! (38000 iss) Colar, *g, Mysore Colombian Hydraulic, g, Colombia Colorado United, *s! Colorado*!; Cootacovii, *g, Wynaad Corporation South Australian Cop.	1 0 5 0 0 15 1 0	0 13/4 15/4 0 3/4 5/6 0 3/4 13/6	INSURANCE COMPANIES.
100000	Devala Central, * g, Wynaad Devala Moyar, * g, Wynaad† Devala Provident, * g, Wynaad† Dingley Dell, * g, Devala, India Don Pedro North del Rey*	1 0 0 10 1 0 1 0	0 3/8 5/8 0 3/4 1 0 1/16 3/16 0 0 1/16 3/16	Issue, Shares, Fd. Clos. pr. 50000 100 Alliance British and Foreign 11 36½ 37½ 10000 100 Ditto, Marine 20 20 22 50000 20 British and Foreign Marine [L], 4 21 22
205168 65000 100000	Eberhardt, s, Nevada*† Eureka,* s, Nevada Exchequer, g, s, California*† Fiagstaff District,* s.g. Utah	1 0 1 0 1 0 1 0	0 3/4 3/16 0 1/16 3/16 0	50000 50 Eagle 5 6 4 7 5000 20 Globe Marine [L] 11 3 1 1/2 27500 100 Imperial Life 10 22 4 23 4 13453 100 Indemnity Marine 50 .16 4 17 4
75000	Gold Coast, g, Wassau	1 0	0 0 1 1¾ 0	100000 10 Lion Fire [L] 2 23½ 24½ 48628 20 L'pool & Lond. Globe (£1 annty) 2 23½ 24½ 35862 25 London and Lancashire Fire 2½ 4½ 4½ 45000 25 London and Provincial Marine 2 4½ 5 5 5 5 5 5 5 5 5 5
120000 10000 12000 400000	Hoover Hill, *g, North Carolina Hornachos, *s-l, Spain	10 0 5 0 1 0	0 10 10 10 10 10 10 10 10 10 10 10 10 10	50000 10 Merchants' Marine 21½ 2 50000 10 Maritime 25 6½ 40000 50 North British and Mercantile 8¾30 32
100000	Indian Consolidated,* g Ind. Glenrock,* g, Wynaad Indian Pheaix,* g, Wynaad Indian Trevelyan,* g, Wynaad Isabelle,* g, s, California I.X.L., g, s, California*	1 0	0 34 1 0 34 1 0 38 56 0 1/16 3/18	40000 25 Ocean Marine
50000 100000 100000	Javali, g, Nicaragua* Kapanga,* g, New Zealand Kohinoor,* s, Colorado London and California g**11	1 0	0 34 76 0 11/4 11/4	50000 10 Sea
35000	Madras, * g, Mysore Michipicoten, * nat. c, Quebec Misouri, t, pret (fully paid) Moselle, * i, b-i, Germany Mysore Redis, * g, Madras Mysore Redis, * g, Madras	A U	0 ¾ 1 0 0 0 ¾ ⅓	40840 20 Union Marine, Liverpool [L] 3½ 4½ 5½ 50000 20 Universal Marine [L] 3 7½ 8½
40000 75000 78500	Nava de Jadraque, * g, s, Spain New Callao, * g, Venezuela New Emma, * s, Utah	1 0 1 0 10 0 1 0	0 0 0 1 1½	MISCELLANEOUS. Shares. Company. Pand. Price. 10 Anglo-American Brush
180000	Norway, e, Halsonon and Radon. Nouv. Monde, g, Ven. (en com.)†. Nundydroog, g, Mysore Olathe, s.t, Leadville, Colorado Ooregum, g, Mysore	1 0 1 0 1 0 1 0	0 36 56 0 0 0 1/10 1/10	10 Ditto do. 10 b 17 22 5 Australasian Electric 3 0 13/4 13/4 28 Australian Agricultural 21 10 69 71 5 Brush of Scotland 21 0 1/4 1 1 Electric Let. & Power Gener. 1 0 1/4 3/5
100000	Pierre d'Or, *g, Spain	1 0	0 ½ 3½ 0 2¾ 3¼ 0 1¾ 1¾ 0	5 Hammond Elect. L. & P. Sup. 2 10 4¾ 5¼ 1 Home Mines Trust 1 0 1 1½ 5 Indian and Oriental Electric 2 0 1 1½ 10 John Vernon Hope & Co 5 0 5½ 5½
103000 349880 40000 90000	Placerville, g, q, California Potosi, g, Venezuela† Ravenseliff, g, N. Zind; c, S. Aust, Rhodes Reef, g, Wynaad† Rico, s, Colorado (nonassessable).	1 0 1 0 0 15 1 0	0 % 1% 0 % % 0 0 % %	10 Ditto, preference 10 0 10½ 11 1 Maxim-Weston Electric 1 0 3 5 5/ 5 Pilsen Joel Electric 2 0 13/ 13/ 8tk. Scottish Australian Invt. Co. 100 0 210 215 8tk. Ditto New Ordinary 50 0 107 112
	wie o tande do par (and 31,000 biel'		0 0 0 176 236	8tk. Ditto New Ordinary

IRON AND COAL COMPANIES.	GAS COMPANIES.
Shares Company Putis Price	Lesses Shares P.J. Clos. pr.
50 Knowles, Andrew, and Oo. [L] 25 0 1214 13 20 Llynvi and Tondu [L]	50000stk Ditto, ditto, B100 180 185
10 Marbella Iron Ore Co. [L] 10 0 6% 7	TRAMWAYS.
10 Midland Iron Co. [L]	
BANKS. Pd. Clos. pr.	25000 10 Vale of Clyde 6
100000	TELEGRAPH COMPANIES Stares Pd Clos. pr
180000 25 Oriental Bank Corporation all 16 17 12500 10 Queensland National [L] 5 10 10½ 34000 100 Stndrd. of British 80, Africa [L] 25 57 58 50000 25 Union of Australia 41 65 68	London: Frinted by Richard Milliands, at their office, by Hanst English (the proprietors), at their office, 25, Flert Street, E.C., where all communications are requested to be addressed.—November 11, 1852.

IRON AND COAL COMPANIES.

GAS COMPANIES
Issue. Shares. GAS COMPANIES.
Lessee States P.L. Clos. pr.
20000 20Continental Union [L]
94850 Bik Gaslight and Coke, A, Ord 100 178 181 234200 81k Do. 4 per cent. Deb. Stock 100 104 105 5000 10 Hong Kong and China ali 14 15 2300000. 8kk Imperial Continental 100 195 193 386500 8kk London 100 208 213
Issue. Shares. GAS COMPANIES. Pt. Clos. pr.
B100 180 185
Issue, Shares, Pd. Glos, pr. 40000 5 Anglo-Argentine [L] all 5% 5% 5% 10000 10 Barcelona [L] all 5% 5% 3050 10 Bercelona [L] all 5% 5% 3050 10 Berkenhead, Ordinary all 24% 5% 3050 10 Birkenhead, Ordinary all 24% 5% 3050 10 Birkenhead, Ordinary all 24% 5% 3050 10 Birkenhead, Ordinary all 24% 5% 3050 10 Bordeaux Tram & Omnibus [L] all 3% 10% 3200 10 Chester [L] all 3% 10% 3200 10 Chester [L] all 3% 10% 3200 10 Dublin all 3% 10% 14890 10 Edinburgh Street Tramways all 11% 12% 35000 10 Glasgow Tramway & Omnii, [L] 9 19 10000 10 Hull Street Tramways all 3% 11% 12% 12% 12% 12% 12% 12% 12% 12% 12
d construction and the construction of the con
TELEGRAPH COMPANIES Shares Shares Pri Clos. pr.